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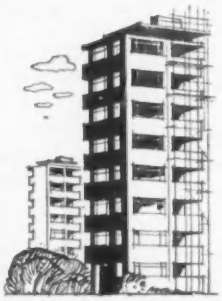

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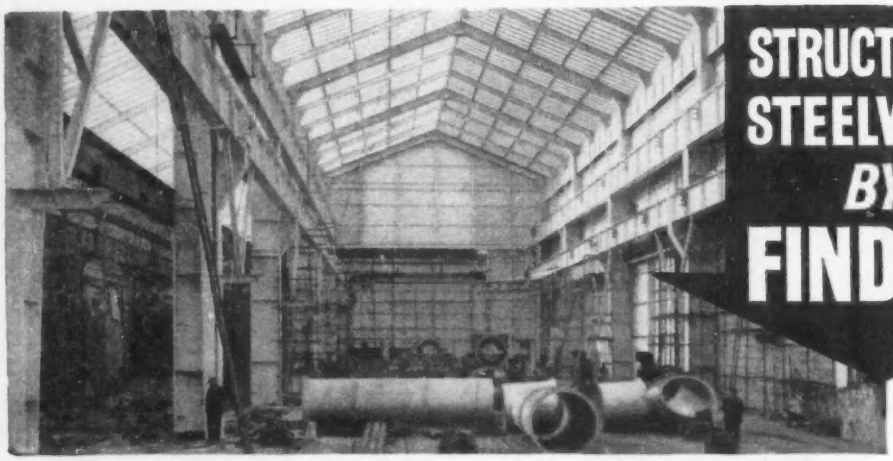

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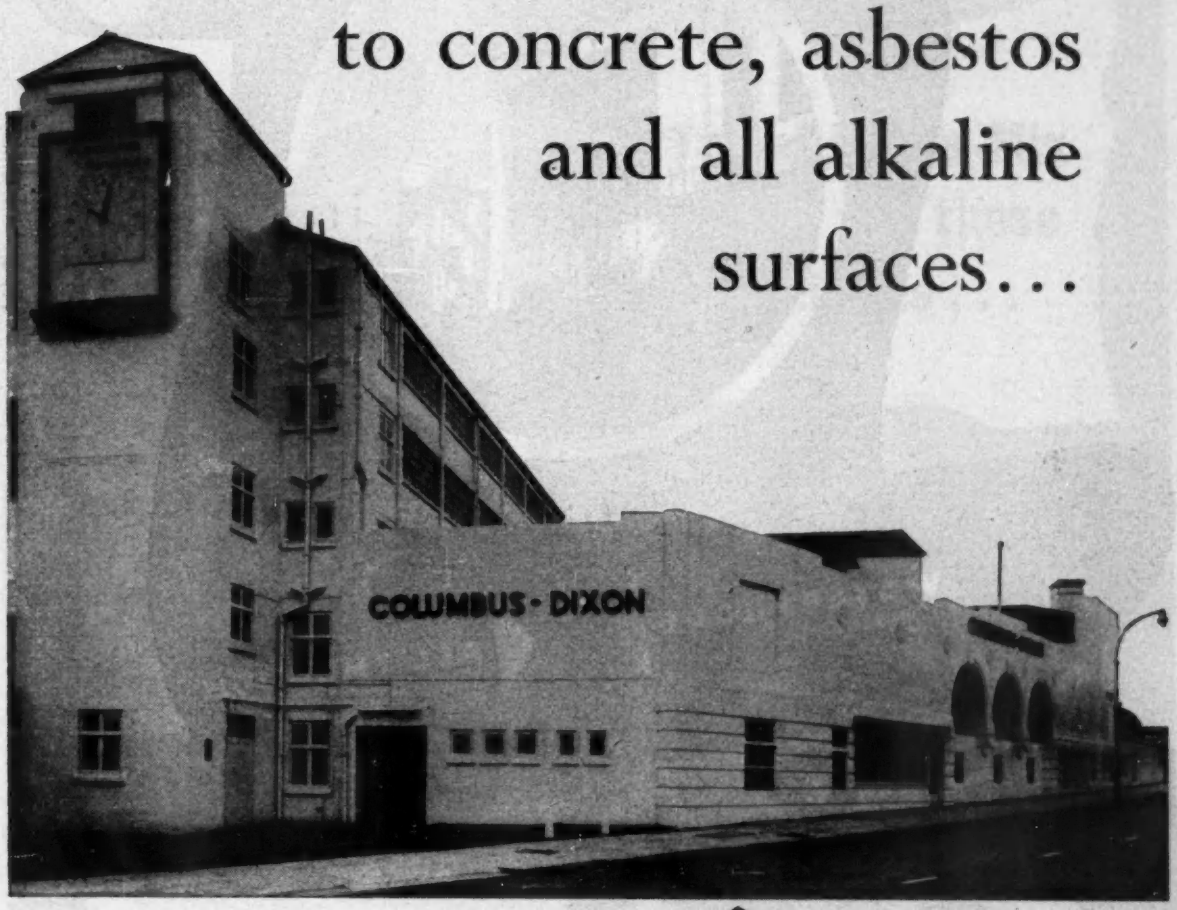

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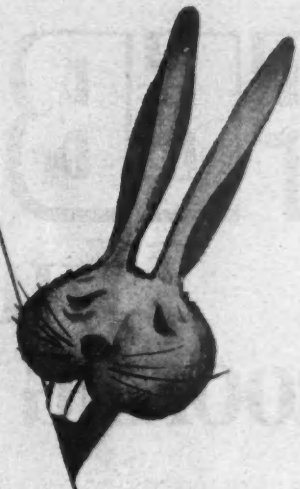

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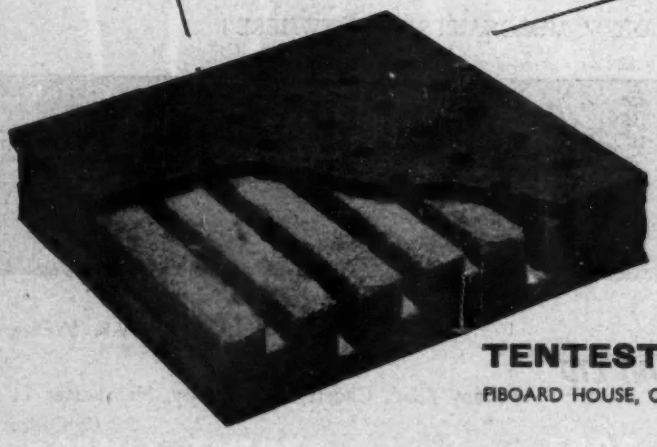

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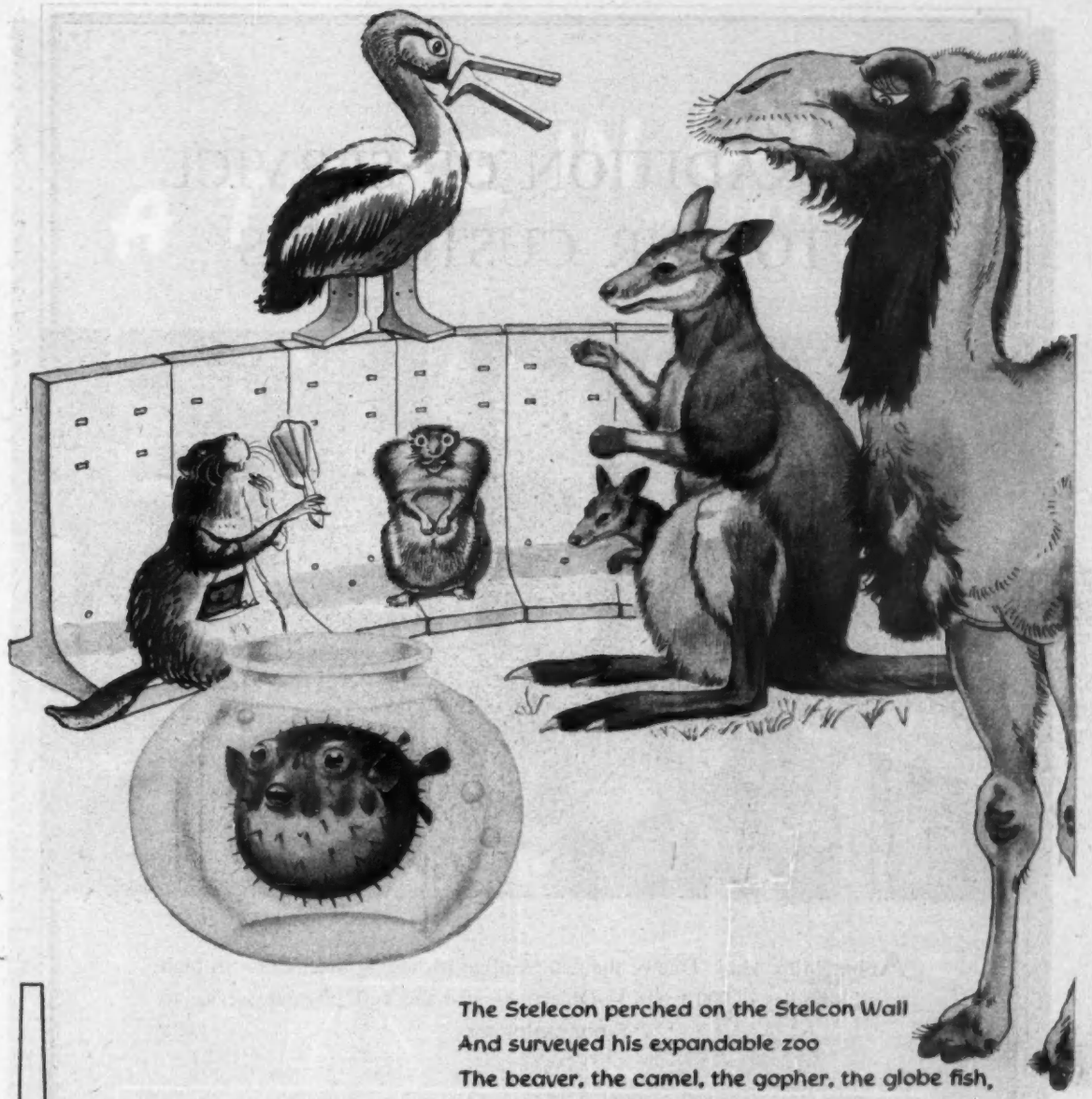

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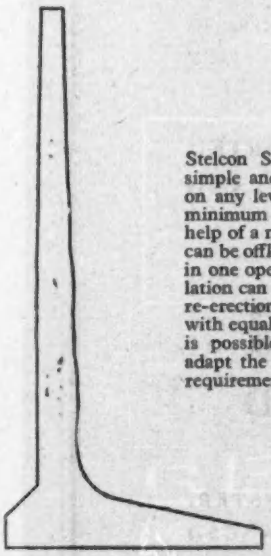

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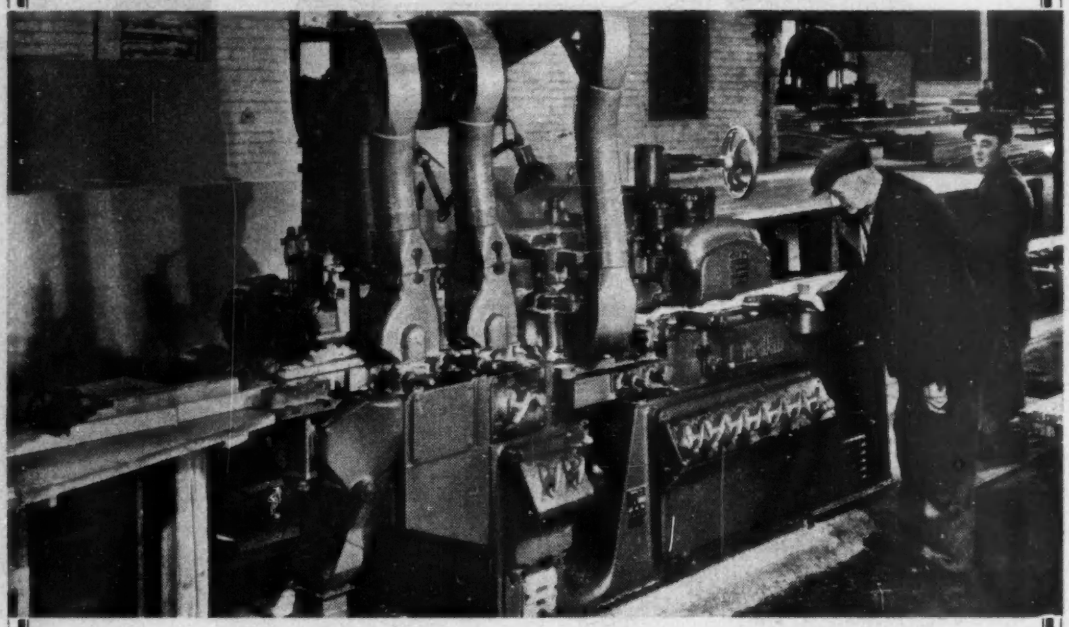

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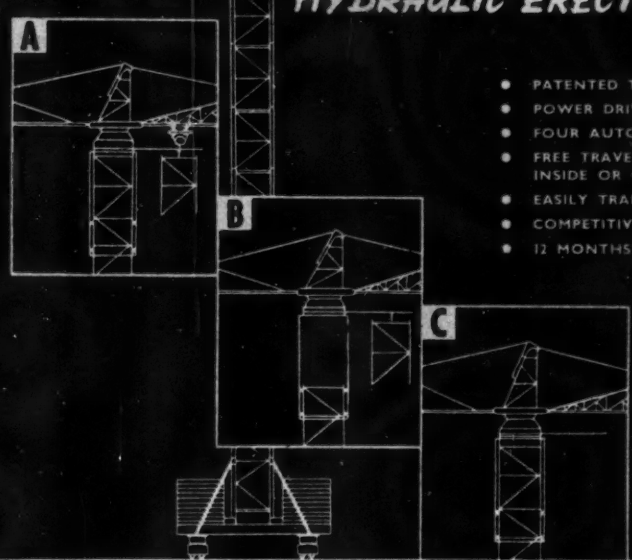

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S.W.L. at maximum radius	5 cwt	10 cwt	12 cwt	14 cwt	12 cwt	20 cwt	16 cwt	30 cwt	20 cwt	40 cwt	30 cwt
Maximum S.W.L.	10 cwt	20 cwt	40 cwt	50 cwt	50 cwt	60 cwt	60 cwt	100 cwt	100 cwt	120 cwt	120 cwt
Height under hook free travelling	40 ft	59 ft	86 ft	98 ft	98 ft	135 ft	135 ft	148 ft	148 ft	135 ft	135 ft
Height when "Telescopic"		100 ft	460 ft	460 ft	460 ft	500 ft	500 ft	500 ft	500 ft	500 ft	500 ft
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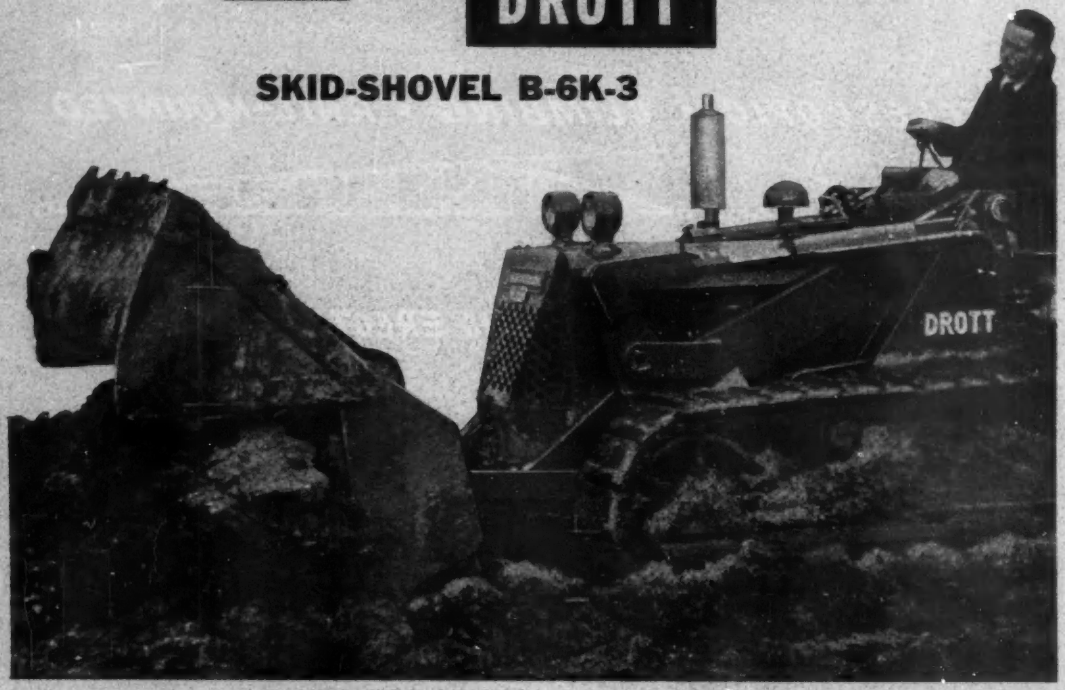

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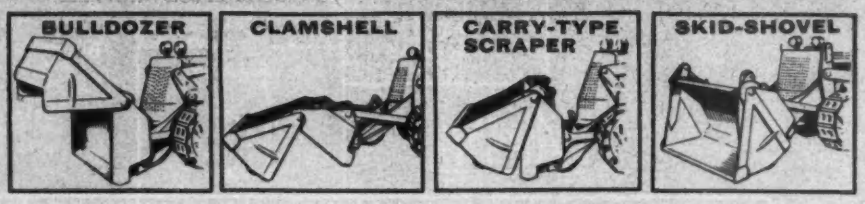

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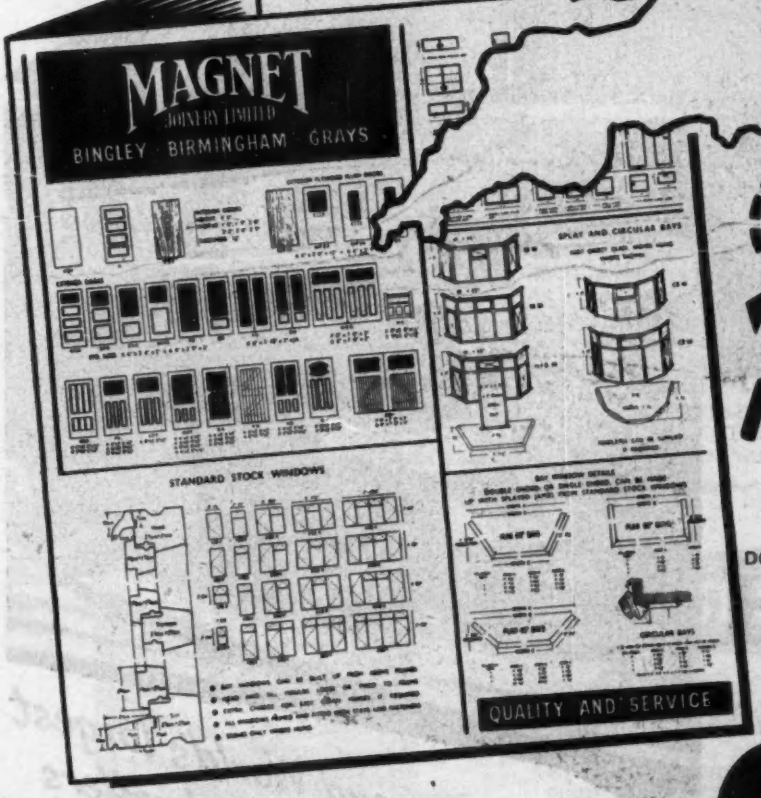

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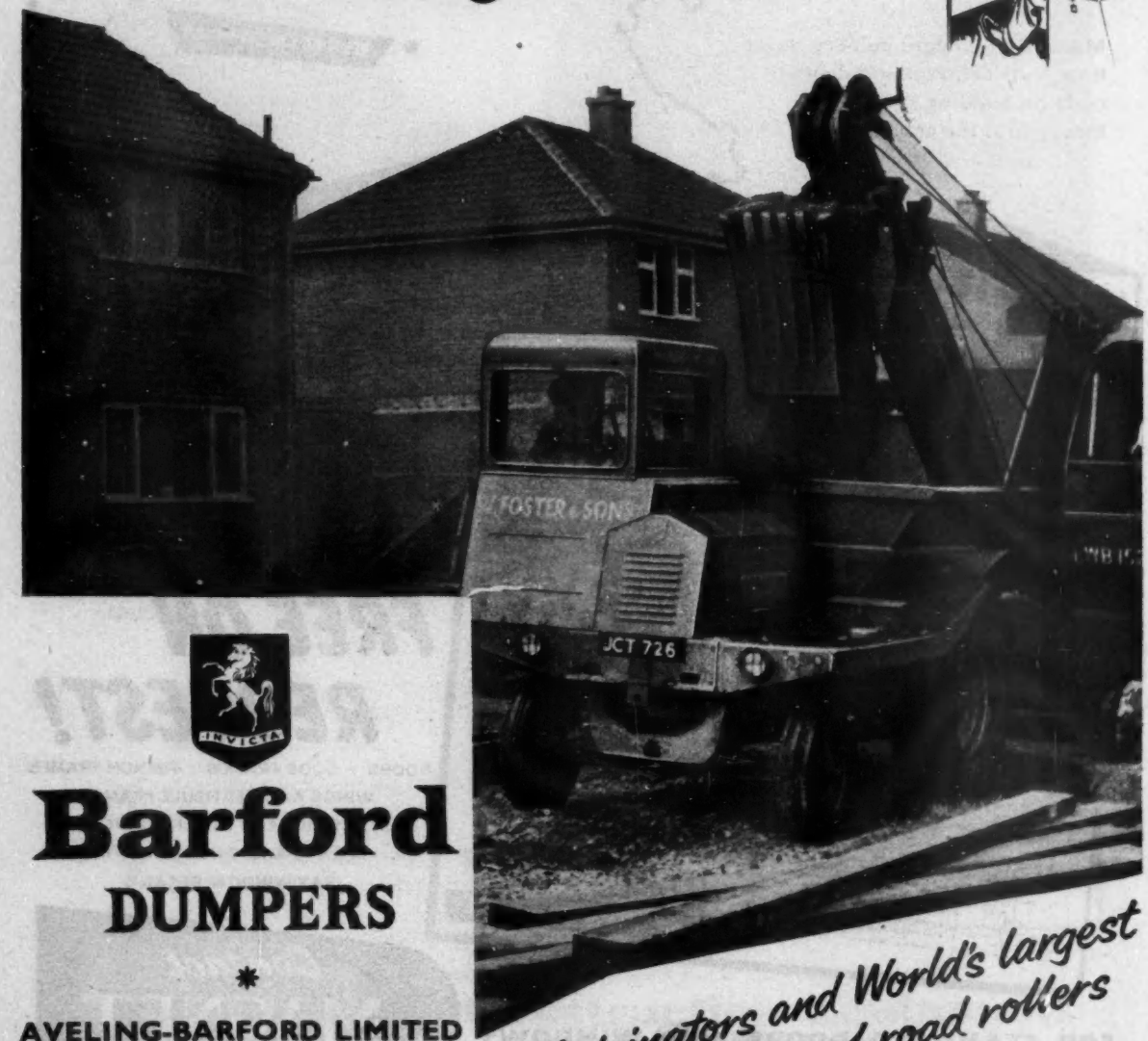

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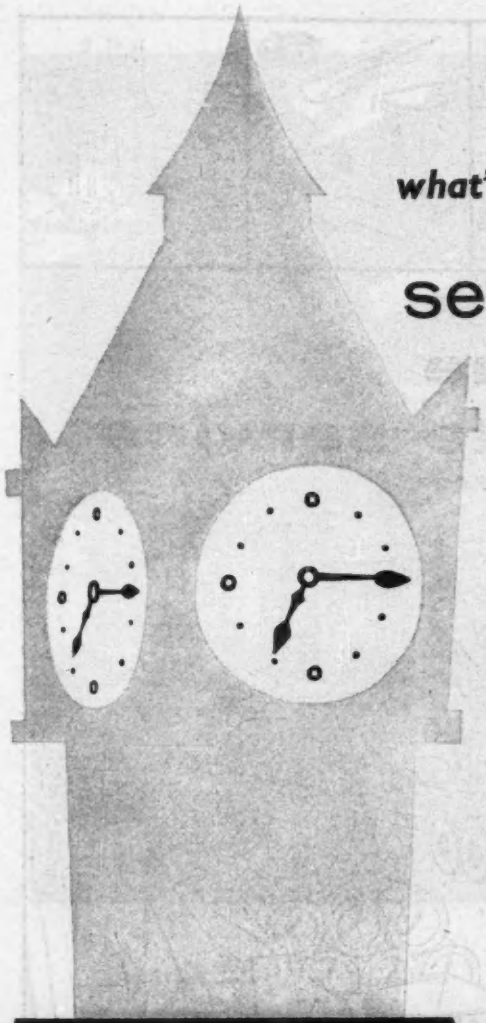

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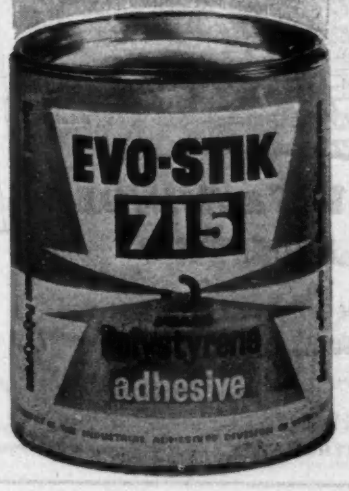

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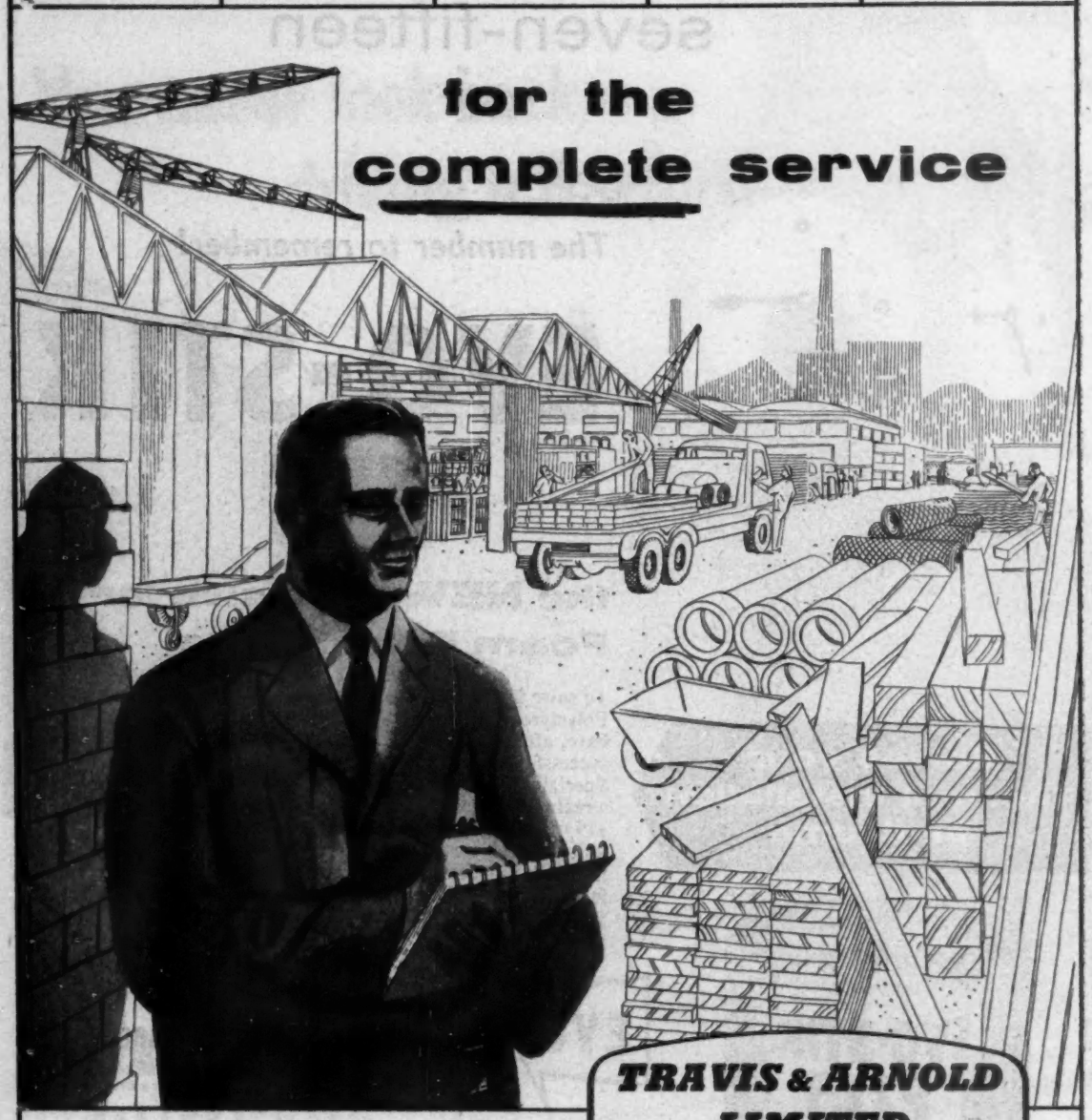

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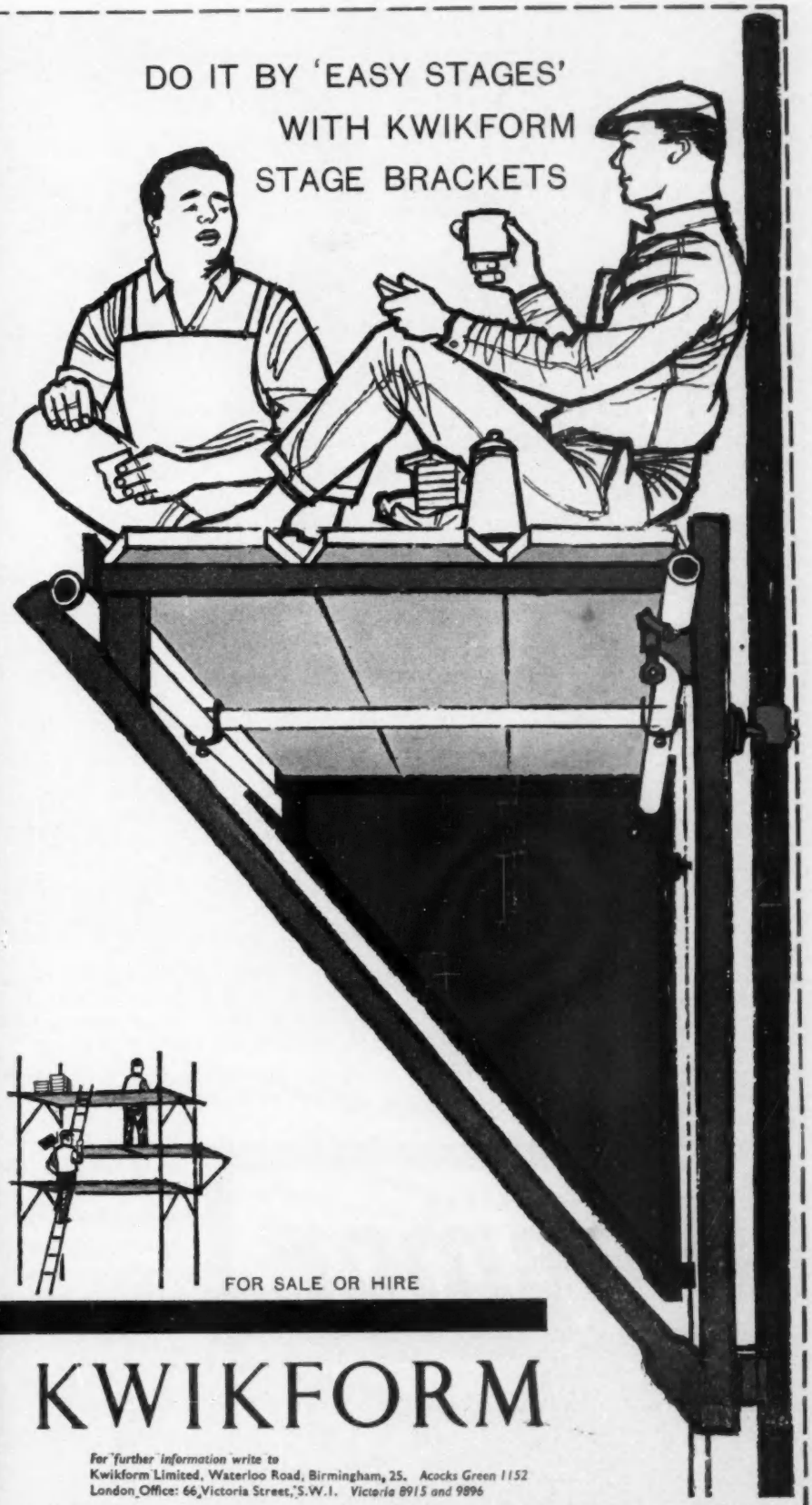

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The VANITORY* unit—
a design for modern living

What is a VANITORY unit? Everything that could ever be needed for washing, shaving or make-up—all combined in a single space-saving unit, luxuriously surfaced in FORMICA* decorative laminates. Out of sight go the old eyesores—waste pipes, hot and cold water pipes. Into the scheme of things come new luxuries—separate washing bowl for husband and wife, strip lighting, built in mirror, cosmetic cupboards and shelves.

It's essentially a flexible idea. Leading manufacturers, in association with FORMICA Ltd design units to suit any number of special requirements. A washbasin dressing table in a small bedroom, for instance, or, again, a large multi-bowl unit for a hotel cloakroom. But large or small the principle is always the same—convenience, space-saving, and the glamour of FORMICA surfaces.

For this exciting new concept, FORMICA Ltd have planned a massive promotional drive. Large, frequent and compelling advertisements are appearing in the national press, home interest magazines and architectural journals.

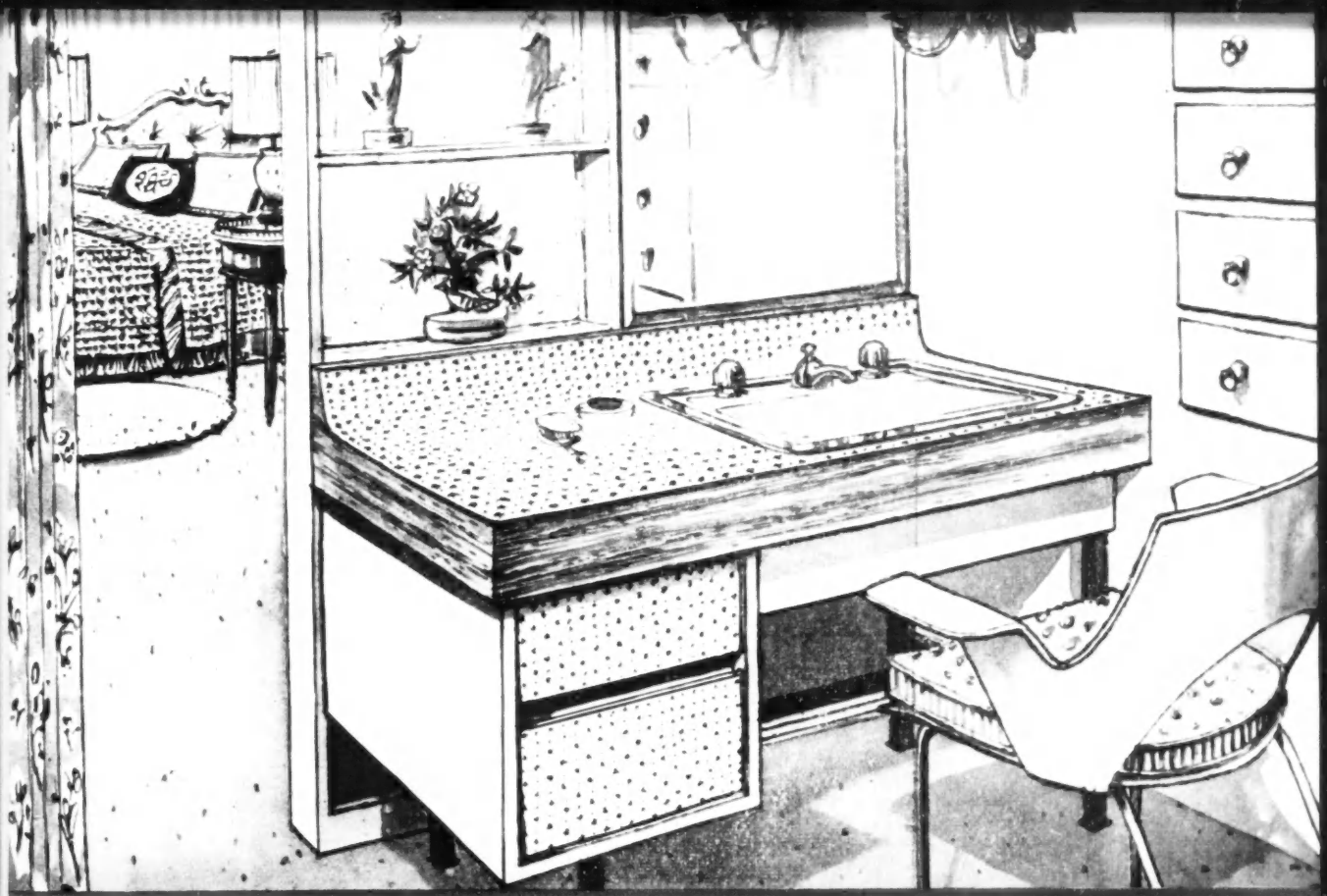
What it means to you

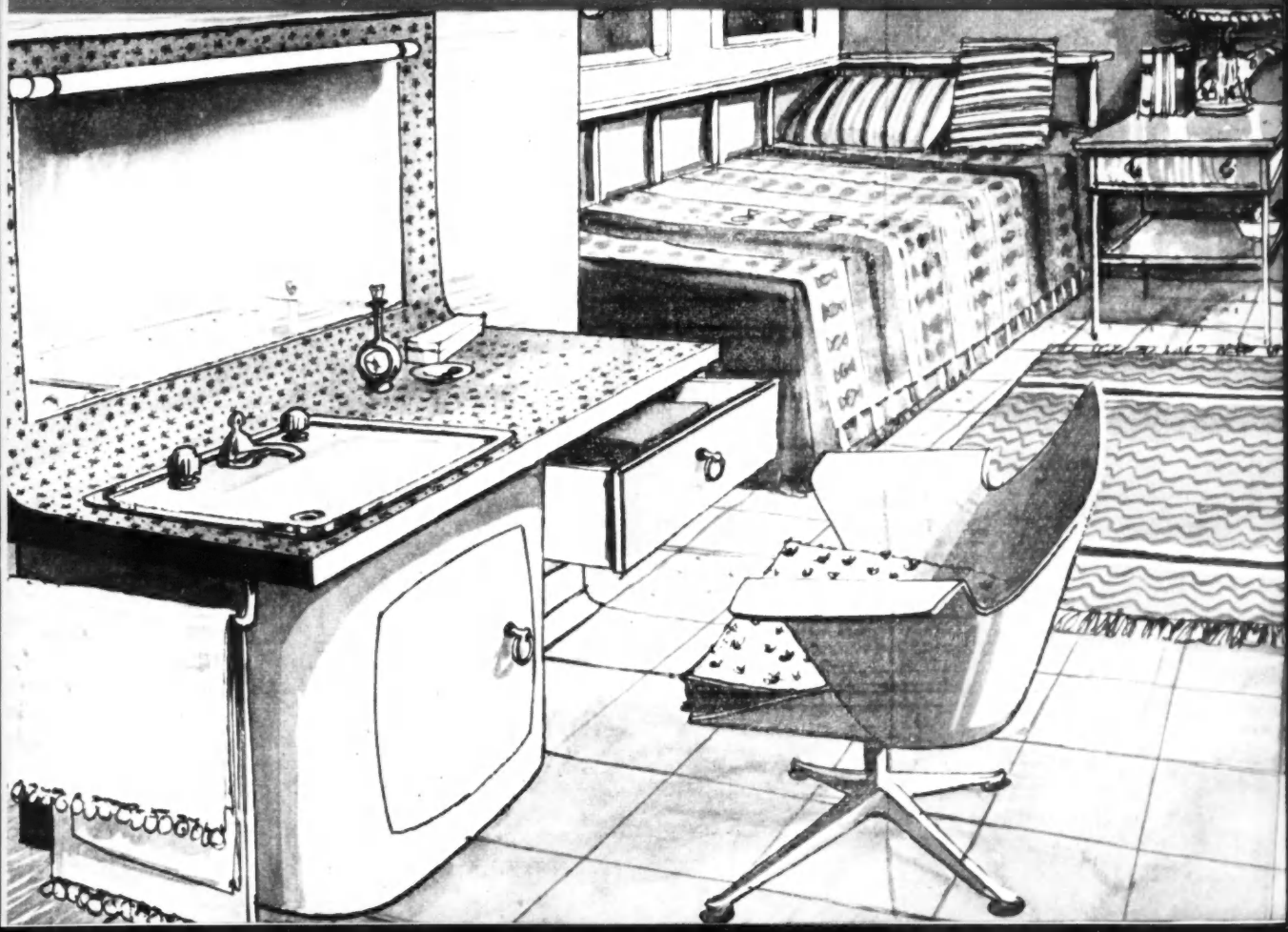
What does the VANITORY unit mean to you? It means that you can now provide a luxury bathroom for every home, large or small. It means, wherever there's a problem of space, that you have a ready-made solution. It means that when you're building or converting houses, flats, or offices, you have in the VANITORY unit a powerful additional selling point, involving only a fractional addition to the total purchase price.

FORMICA laminates are an integral part of the VANITORY idea. With their charm, colour and total resistance to moisture they provide the ideal surfacing for a bathroom unit. In fact every VANITORY unit is identified by it's smooth, gem-hard FORMICA surfaces and the gold VANITORY label issued to manufacturers by FORMICA Ltd.

*FORMICA and *VANITORY are registered trade marks.

FORMICA LTD., De La Rue House, 84/86 Regent Street, London, W.1. *Tel: Regent 2901*





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[illegible] planned a [illegible] and compelling [illegible] the national press. Some interest [illegible] and [illegible] journals.

[illegible]

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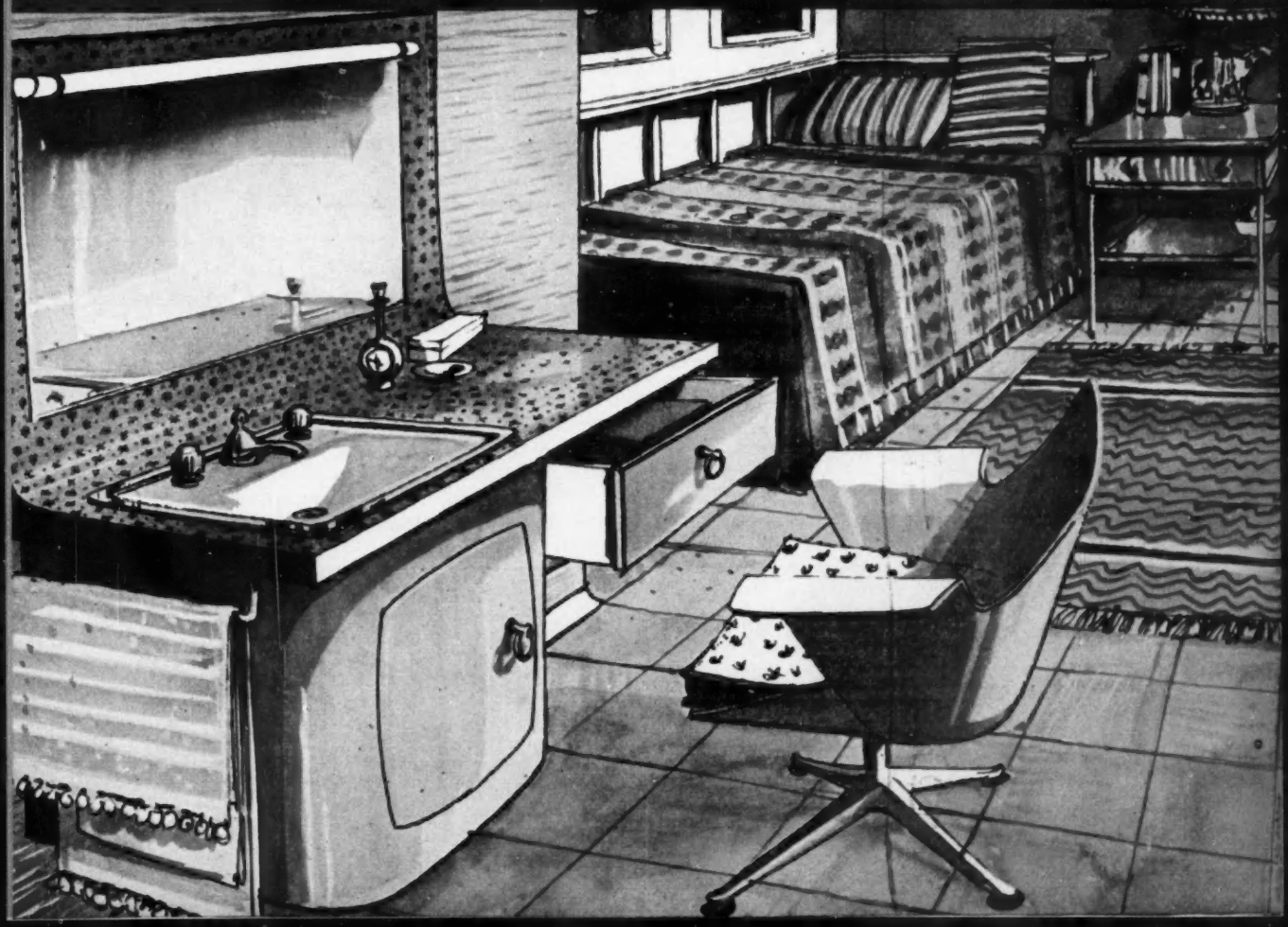
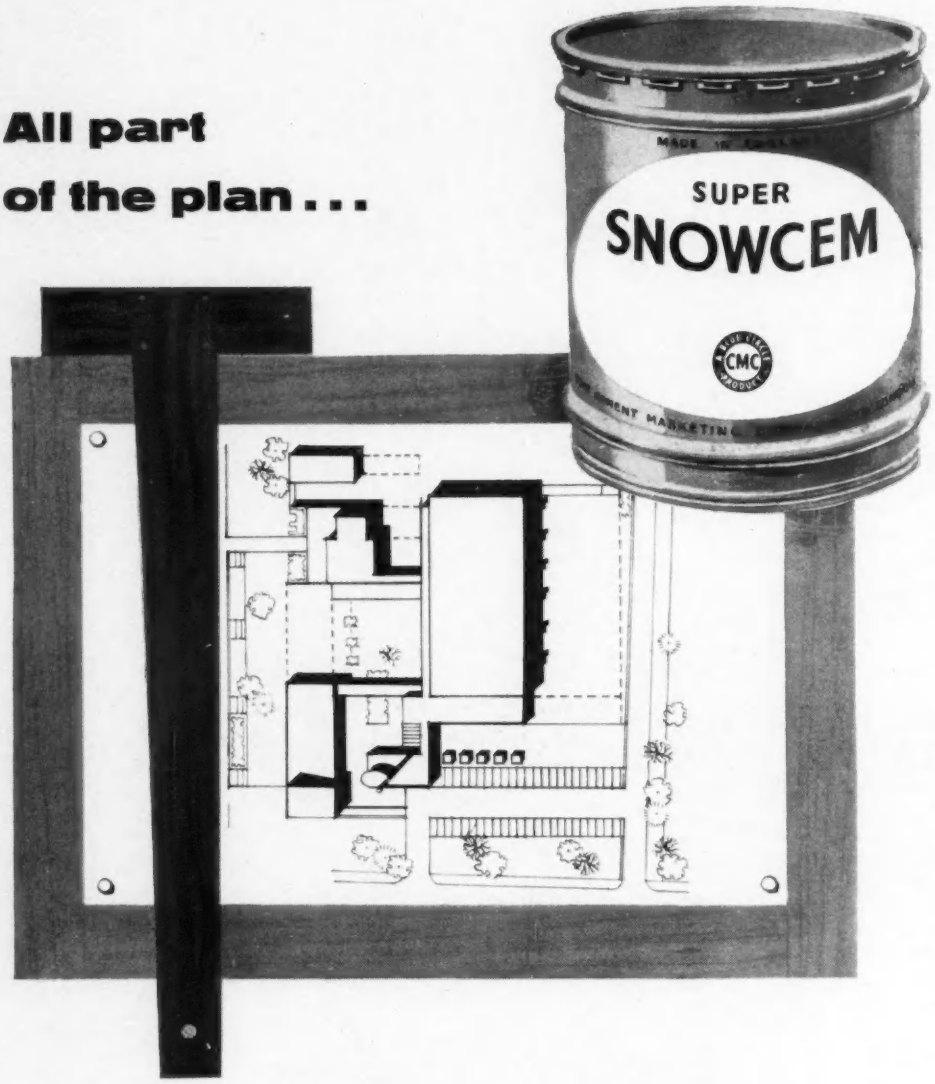
FORMICA LTD., [illegible] Regent Street, London, W.1. [illegible]



All part of the plan . . .



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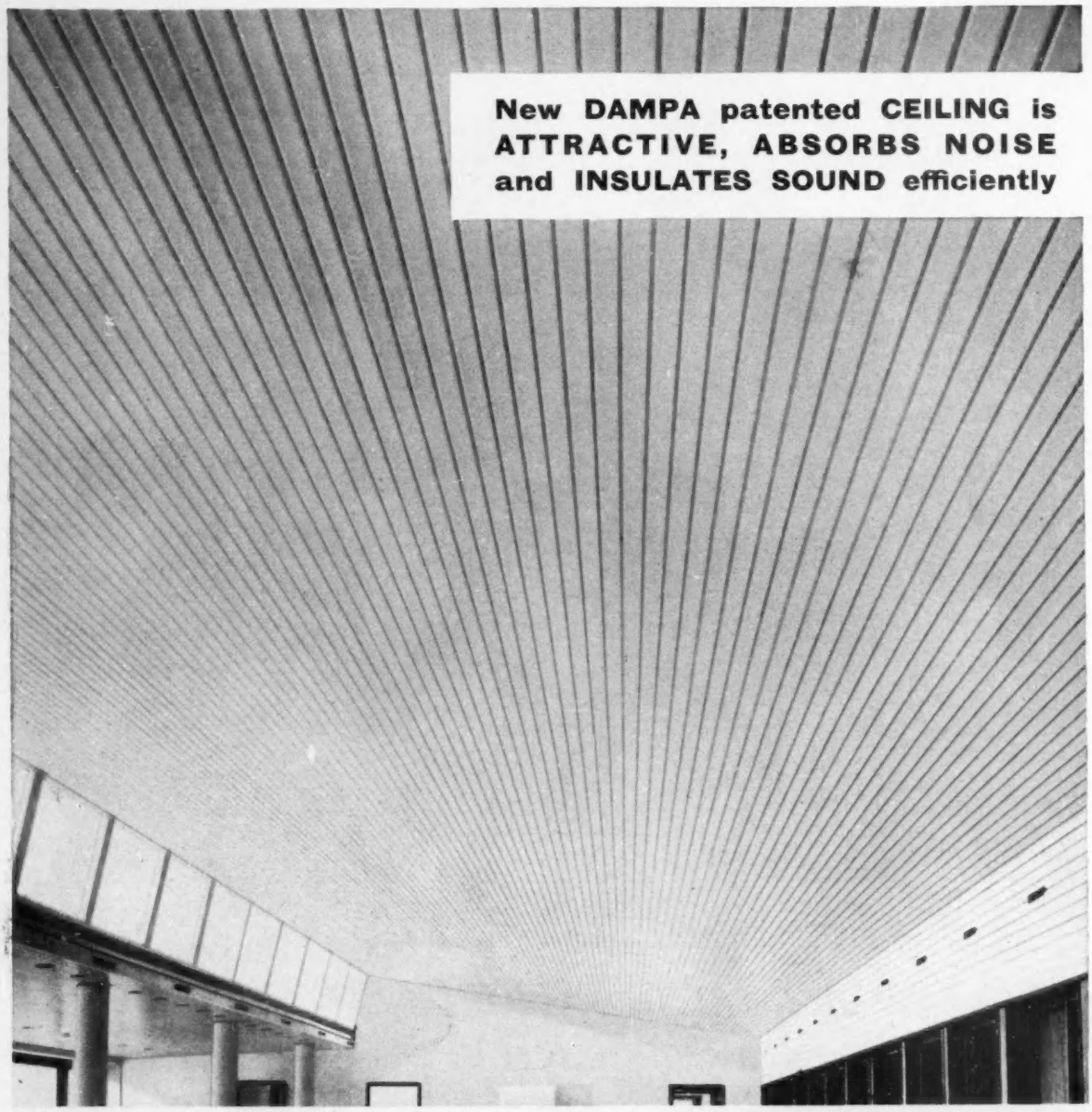
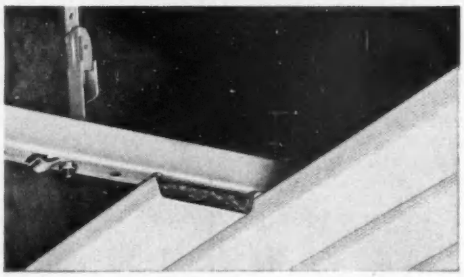
	THICKNESS	WIDTH	LENGTHS
STANDARD	½"	2 & 4 ft.	8 & 10 ft.
	¾"	4 ft.	8 ft.
	1"	4 ft.	8 ft.
REVELLED PANELS	½" & ¾"	4 ft.	4 ft.
		4 ft.	2 ft.
		2 ft.	2 ft.

Other sizes supplied on request
Kraft paper wrapped in bundles



ECONOMICAL, LIGHT & EASY TO ERECT

The fine perforations of Dampa, 30,000 to the sq. ft., merge optically at a short distance to give a smooth, matt textured surface without the peg board or kitchen colander look usually associated with sound absorption. Fine though these perforations are, they give Dampa ceilings an open area of 20% which is approximately twice that of conventional materials. The special shape of the strip also gives an absoption area 20% greater than the actual area of the ceiling. Both these factors ensure greatly increased acoustic efficiency. Immediately it is erected a Dampa ceiling is complete because the strips are stove enamelled in standard white or in any B.S.S. colour specified. Dampa ceilings are made of aluminium, are fire-proof and long lasting.



Special clip speeds erection

Dampa ceilings are extremely adaptable as they require a minimum of fixing points and can be adjusted to uneven ceilings or pitched roofs easily and quickly. The strips are made of a special aluminium with an inlay of specially processed mineral wood. Sections of the ceiling can be easily removed or replaced and the introduction of lighting fittings is an unusually simple matter. The ceiling can also be heated.

Patented **DAMPA**

For full information please write to:
DAMPA ACOUSTICS LIMITED,
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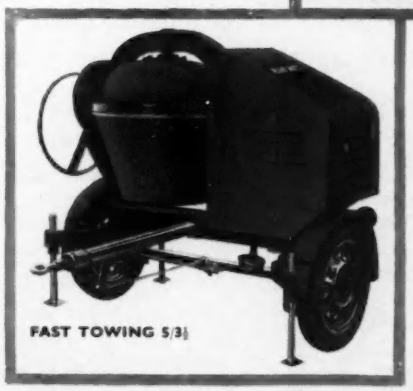
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ROB ROY

CONTRACTORS' PLANT

TRIANCO DUPLEX

CONTRA-FLOW PADDLE TYPE

MIXING PLANT

This machine comprises the 21/15 cu. ft. capacity Duplex Mixer and Batch Elevator. Special features are labour saving devices and good mixing.

Salient points are pre-selection at ground level from a detached Control Panel to operate Elevator—Mixing—Water Injection—Discharge and other controlled features.

The mixer has continuous automatic cycle which is infinitely variable from 2 to 8 minutes. The Dry/Wet mixing period is also variable at will, whilst control of Water enables this to be varied up to 20 gallons.

One single automatic cycle can be selected if continuous mixing is not required. whilst this mix can be discharged at the end of the cycle or held under mixing conditions until needed. Note the detached Control Panel connected to the Mixing Plant by electric cable.

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Specification will be sent on application

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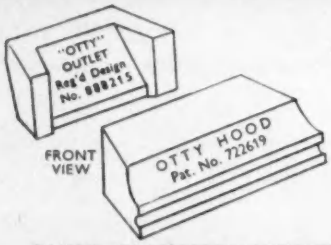
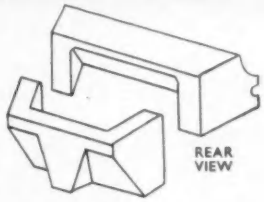
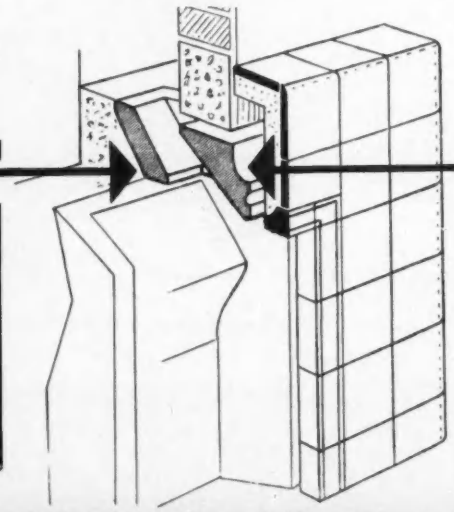
THE "OTTY" FIREBACK HOOD (PAT Nº 722619) AND OUTLET (REGD DESIGN Nº 888215)

Section of a Fireplace showing the **"OTTY"** Fireback Hood and **"OTTY"** Outlet *assembled together.*







Predetermines entrance to flue.
Restricts throat to correct size.
Correctly splayed throat apperture.
Smoke passes unimpeded into flue.
Cuts down excess air change.
Retains heat in room.
Impedes down draughts.

Seals off fireback to lintel.
Resists heat to back of surround.
Shelf remains cool.
Eliminates smoke pocket.
Avoids loss of heat up flue.
Greater efficiency.
Economy in fuel.

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Heard the news from WEYROC?

As a result of increased production from new automatic plant...

WEYROC has always had the reputation of being *the board you can trust*—to do so many jobs, so well. Now, new developments put WEYROC even further ahead as the *board of choice* for the Building and allied Trades.

Blue Label WEYROC has been discontinued and in its place comes a new, improved form of WEYROC . . . in quantities never possible before. This new, improved WEYROC is lightweight, strong, stable and durable, with smooth-sanded moisture-resistant surfaces for easier working. In short, a very much more *precise* board than before. As such, it has marked advantages for almost every job in building* which calls for flat-form timber. This new WEYROC is available . . .

in a choice of boards.

weyroc '34'
layer construction board
8′ x 4′ boards

weyroc '38'
graded density board
12′, 8′ and 4′ x 5′8″ boards

Both boards produced in ½″, ⅝″ and ¾″ thicknesses nominal and cost between 1/1¼d. and 1/6d. per sq. ft. (according to thickness).

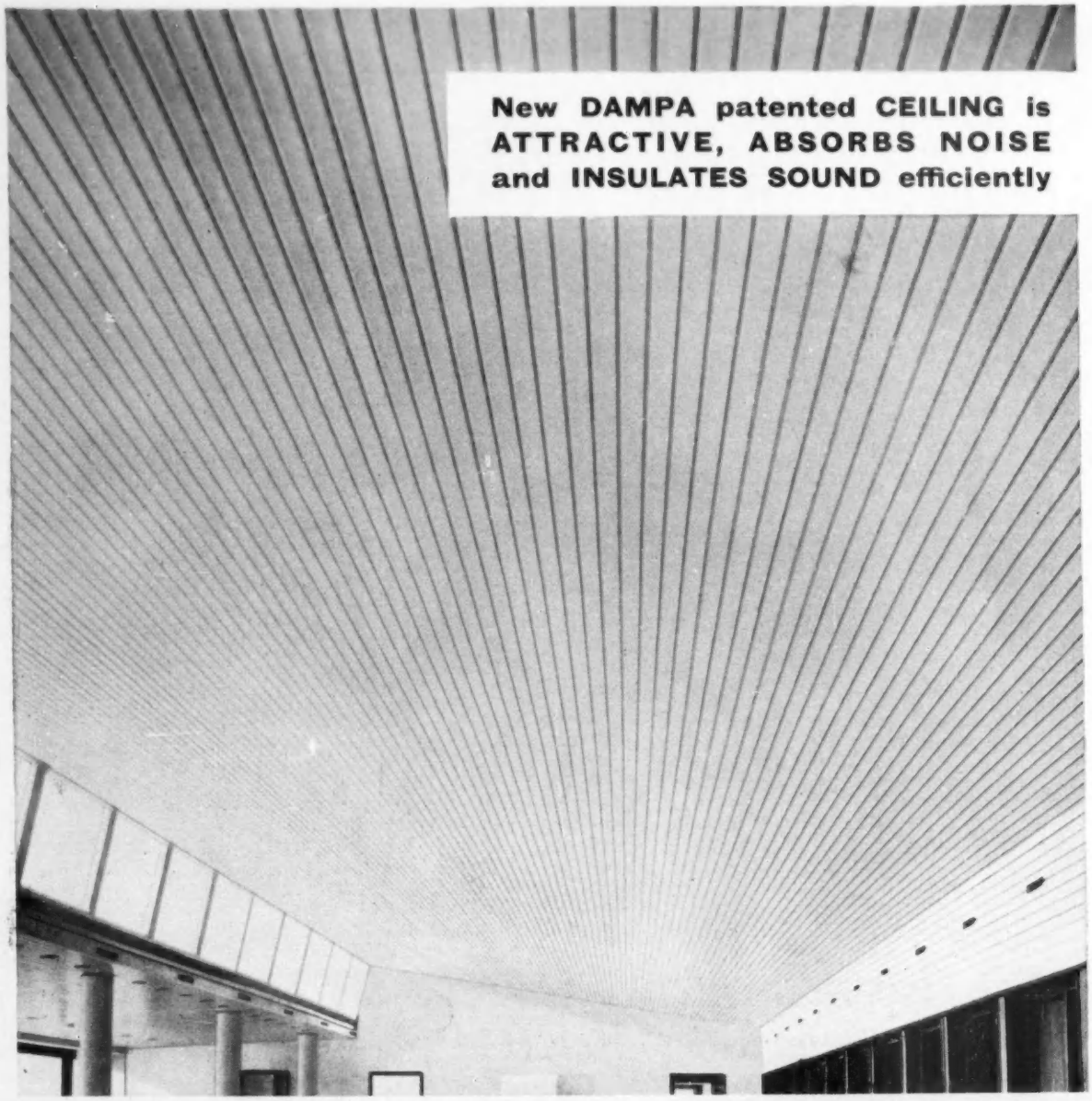
Although these Boards are almost identical in strength characteristics and surface properties, we recommend WEYROC '34' particularly for the Building Trades. This is because it is available in the standard building board size and because it has a slightly higher impact resistance.

*
N.B. *These Boards are not suitable for suspended flooring.*
As Blue Label WEYROC has now been discontinued, this means that there is at present no WEYROC board for flooring. However, it is our intention to produce a new, special flooring grade in the very near future.

weyroc

one of the world's great man-made materials

WPS 70



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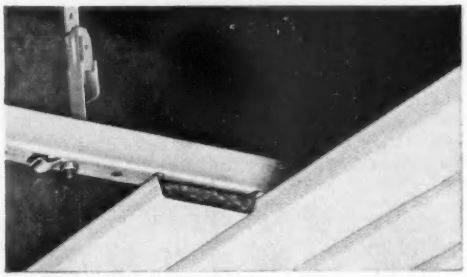

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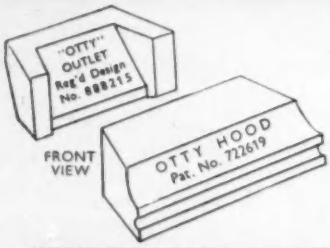

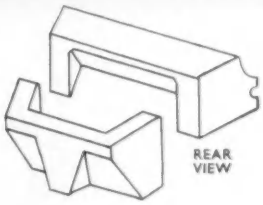

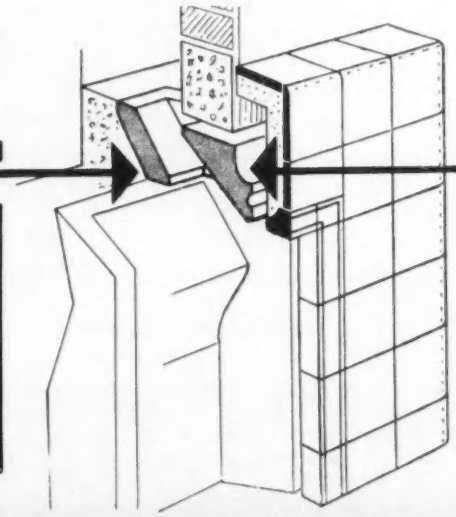

Predetermines entrance to flue.
Restricts throat to correct size.
Correctly splayed throat apperture.
Smoke passes unimpeded into flue.
Cuts down excess air change.
Retains heat in room.
Impedes down draughts.

Seals off fireback to lintel.
Resists heat to back of surround.
Shelf remains cool.
Eliminates smoke pocket.
Avoids loss of heat up flue.
Greater efficiency.
Economy in fuel.

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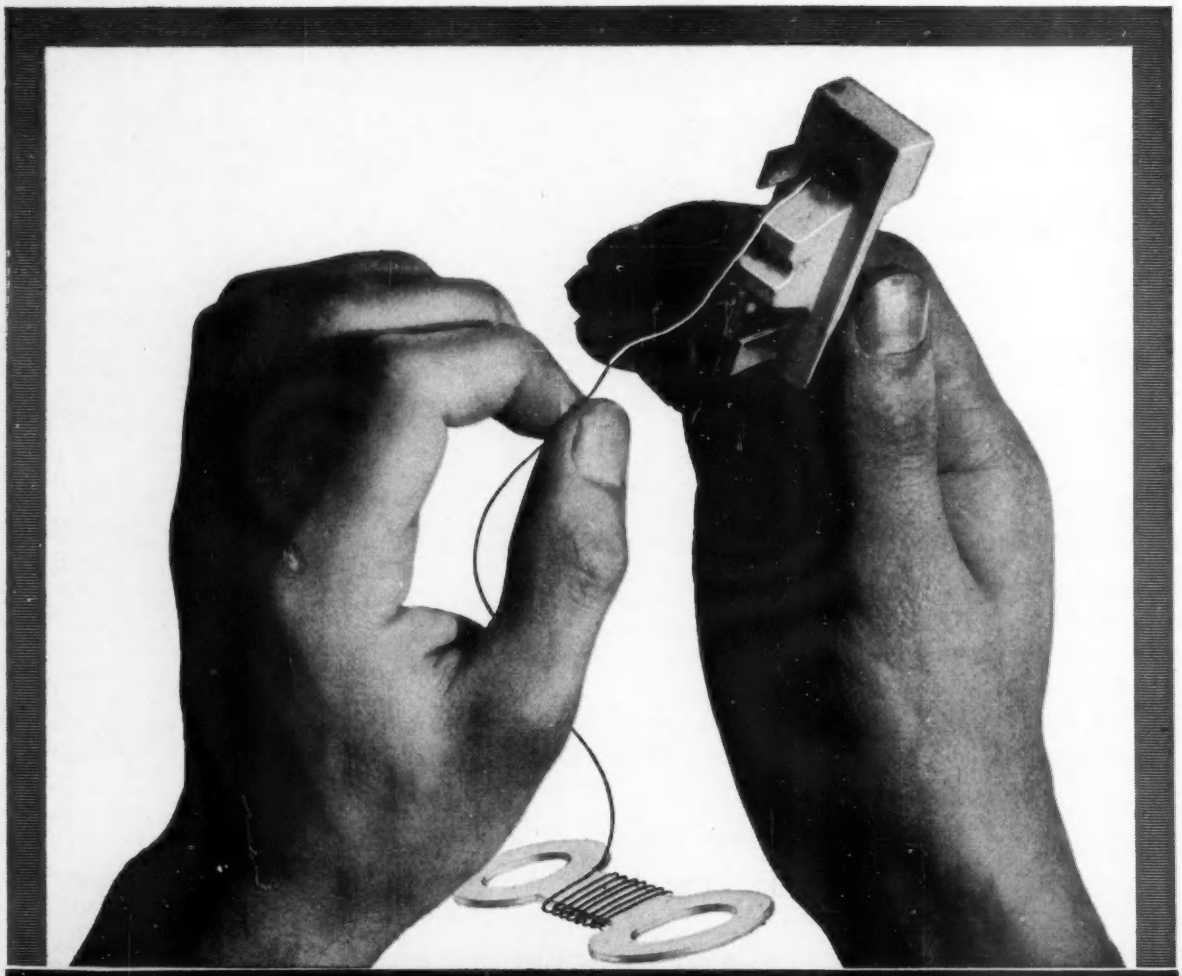

What is a piece of wire worth?

A copper or two? Yet how much we rely on wire when through it flows a stream of electrical power. In that respect, it's very like Wednesbury Copper Tubes. Here again is a product so infallible that we can install it, and forget about it. It will go on carrying vital water supplies year in, year out, without even the occasional reminder of its presence that a piece of fuse wire gives when a fuse is blown. Thank goodness for the quality of Wednesbury Tube.

choose WEDNESBURY TUBE

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Combinol Gloss Paint

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Excellent spreading power and opacity.
Resists all weather conditions.
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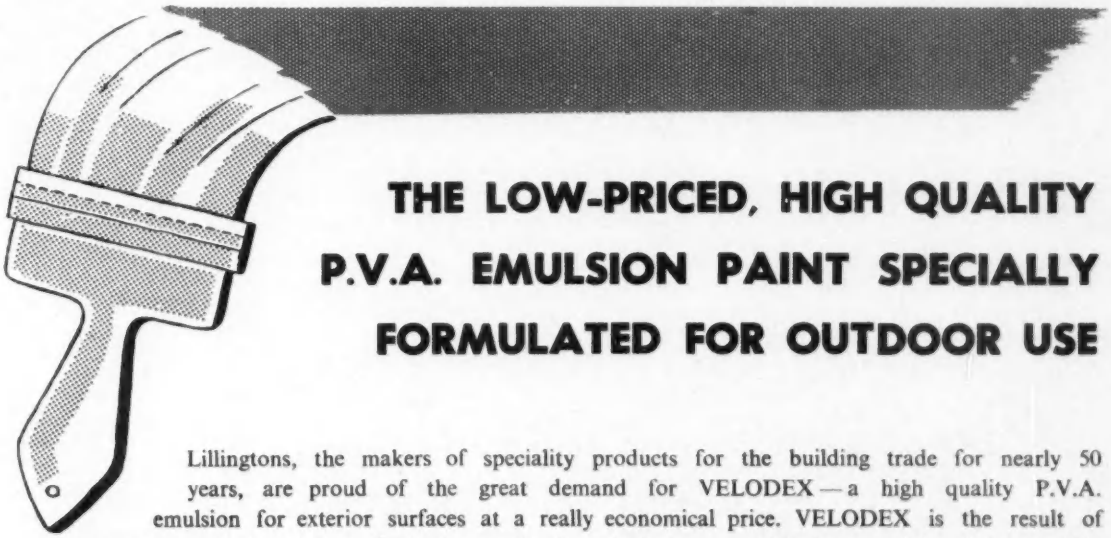
Beautiful Eggshell Lustre Finish.
Easy to apply with wide brush, roller or spray.
Resists steam and condensation.
For all interior surfaces.

Also available in the British Standard Range (101 colours)

Manufactured by Goodlass Wall & Co Ltd

VELODEX



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38/3 per 1-gal. tin
36/- per gallon in 5-gal. pails
Write for colour card and booklet V.E.1

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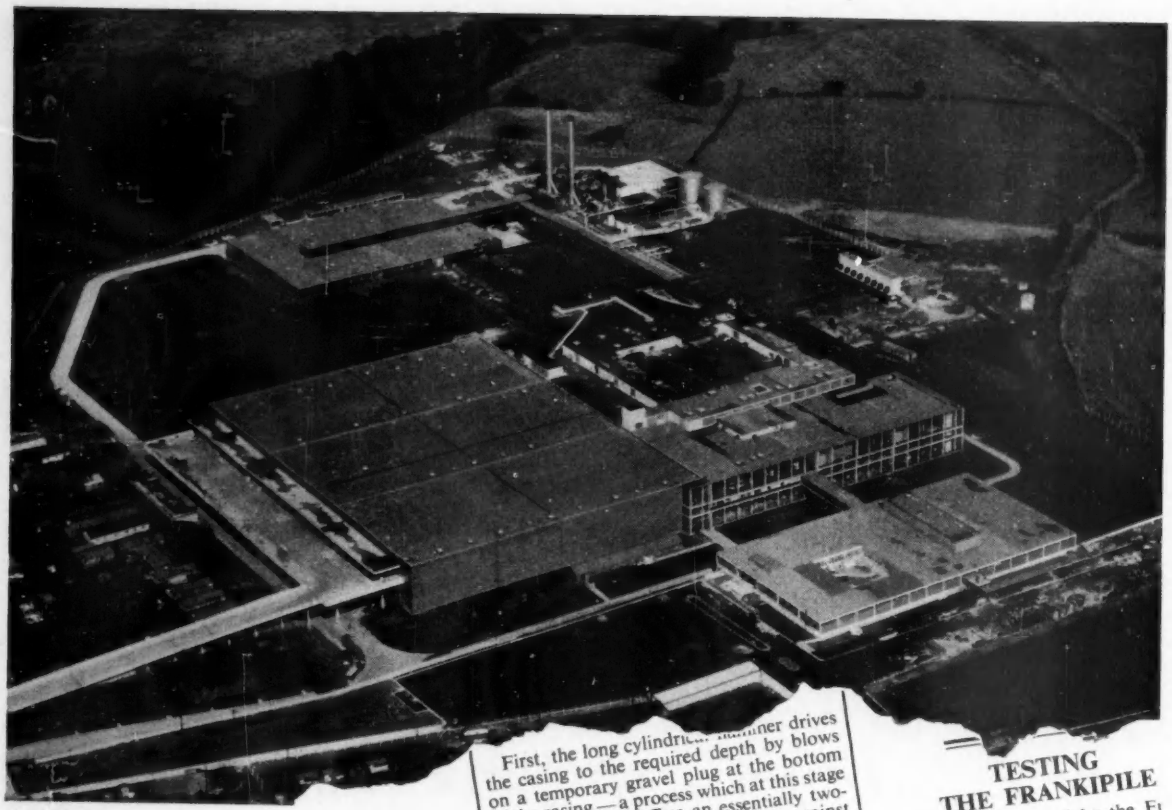

Photograph by courtesy of
H. J. Heinz Company Ltd.

CONSTRUCTING THE PILE SHAFT

he shaft of the pile is built up by placing
cessive charges of the semi-dry concrete
ix into the tube and ramming each charge
e tube is gradually withdrawn by means
cables attached to the lugs at its
his dual action forces the concrete
ls and outwards, consolidating it
se shaft which compresses the
subsoil as it is forced from the
he tube.

is thus greater in diameter than
f the tube, providing adequate
steel reinforcement and at
ensuring the maximum skin
en its rough corrugated sur-
ubsoil which has already been
by the driving process and is
ressed again by the greater girth
itself.

the formation of the pile shaft a
n the hammer cable serves (in the
way as when the tube was driven) to
aintain the head of concrete necessary to
prevent the entry of water or any other
foreign matter. Should water accidentally
the heavy hammer jams in the
e has to be re-driven.
al assurance that a
ement ratio is always
ct this ratio is lower
em of in-situ piling.

ARCHITECTS:
J. Douglass Mathews & Partners.

MAIN CONTRACTORS:
A. Monk & Co. Ltd.

FRANKIPILE

ean surface
ods projecting

ling process de-
d by summarizing
ing respects:

FINISHING THE PILE

Concreting of the shaft can be stopped at any distance below ground level, always provided the shaft has attained the adequate length for stability. Except in in-situ piles can

First, the long cylindrical hammer drives the casing to the required depth by blows on a temporary gravel plug at the bottom of the casing — a process which at this stage of the operation offers an essentially two-fold advantage. (a) It seals the tube against water on the way down; and (b) the long hammer drop ensures blows of greater intensity (although they cause less vibration) than would be practicable if the hammer were applied to the head of the casing. Obstructions in the subsoil are thus more readily overcome.

LATE NEWS

H. J. HEINZ COMPANY LTD. NEW FACTORY AT KITT GREEN, WIGAN

The important new factory at Kitt Green for H. J. Heinz Company Ltd. is standing on a piled foundation. There are over 4,000 Frankipiles supporting the structure, each carrying 45 tons and penetrating some 30 feet into the underlying clay. This piling contract was completed in September 1956 and carried out by FRANKIPILE Ltd. of 39 Victoria Street, London, S.W.1, who offer free literature and advice on piling problems to those Architects and Engineers who wish to avail themselves of this service.

leave a hard, clean surface
projecting

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Compressed Pile Co. Ltd., are gu
to carry the working load speci
guarantee given by the company is s
by Lloyd's.

Piles are normally tested to a l
per cent greater than the designate
load, and one of several metho
employed to test them.

These methods are the dead l
which the weight is provided b
increments of kentledge bearing
the pile cap, and two types of
the first of these types the wei
test load of kentledge is gra
ferred on to the pile by means
in the second, the jack operat
kentledge but against the u
from adjacent piles.

These methods can be relie
equally accurate results, the
them generally depending on
and the type of kentledge a
Whichever method is use
taken at agreed stages durin
incremental loading until
ing the full test load. The
allowed to remain on the
mined period, which is n
After the recording c
which may have occurred
the load is gradually rec
ings being taken at each
way as when the load o
increased.

When the pile is comp
final reading is taken. Th
this and the reading un
is recorded as the perm
Piles are normally t
also be tested in grou

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JW 7

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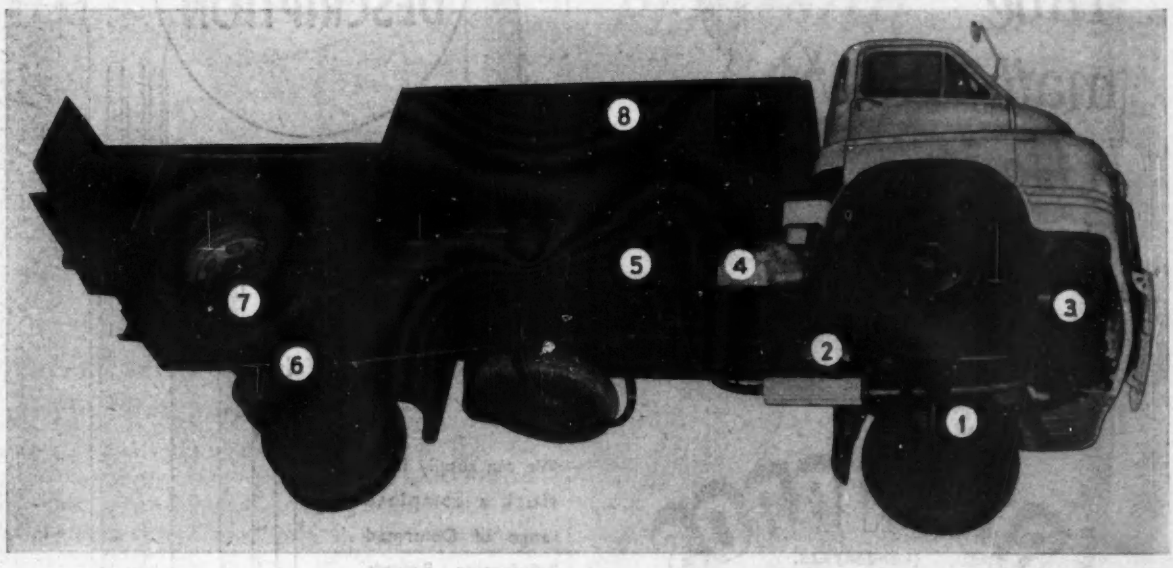

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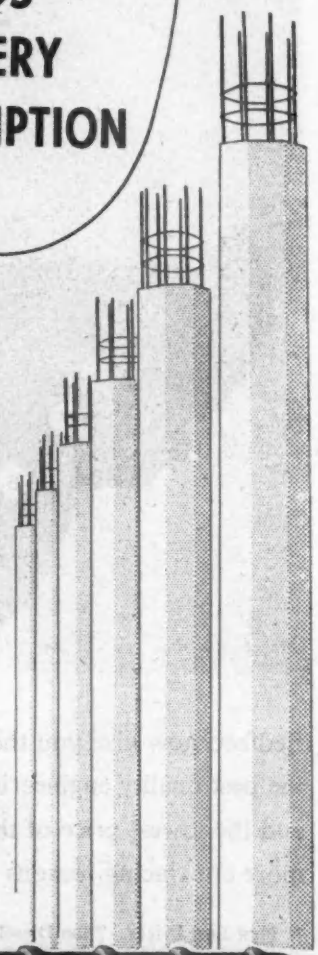

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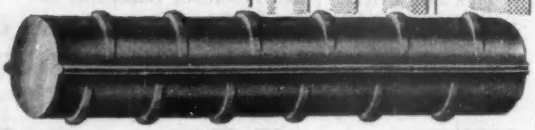

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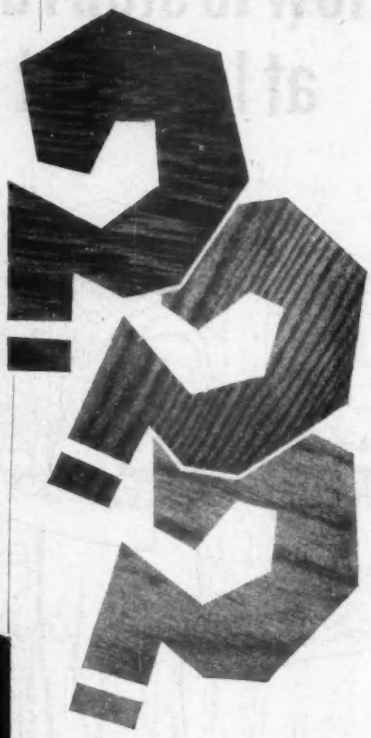

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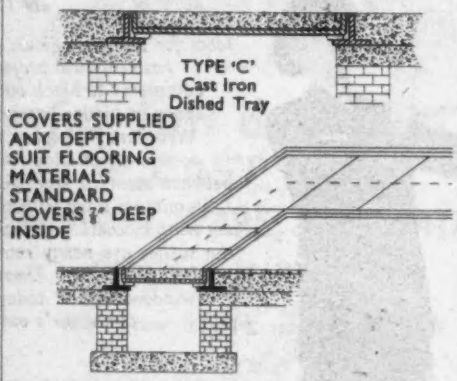

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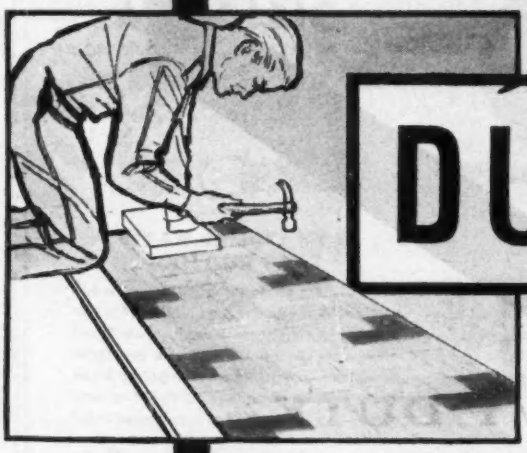

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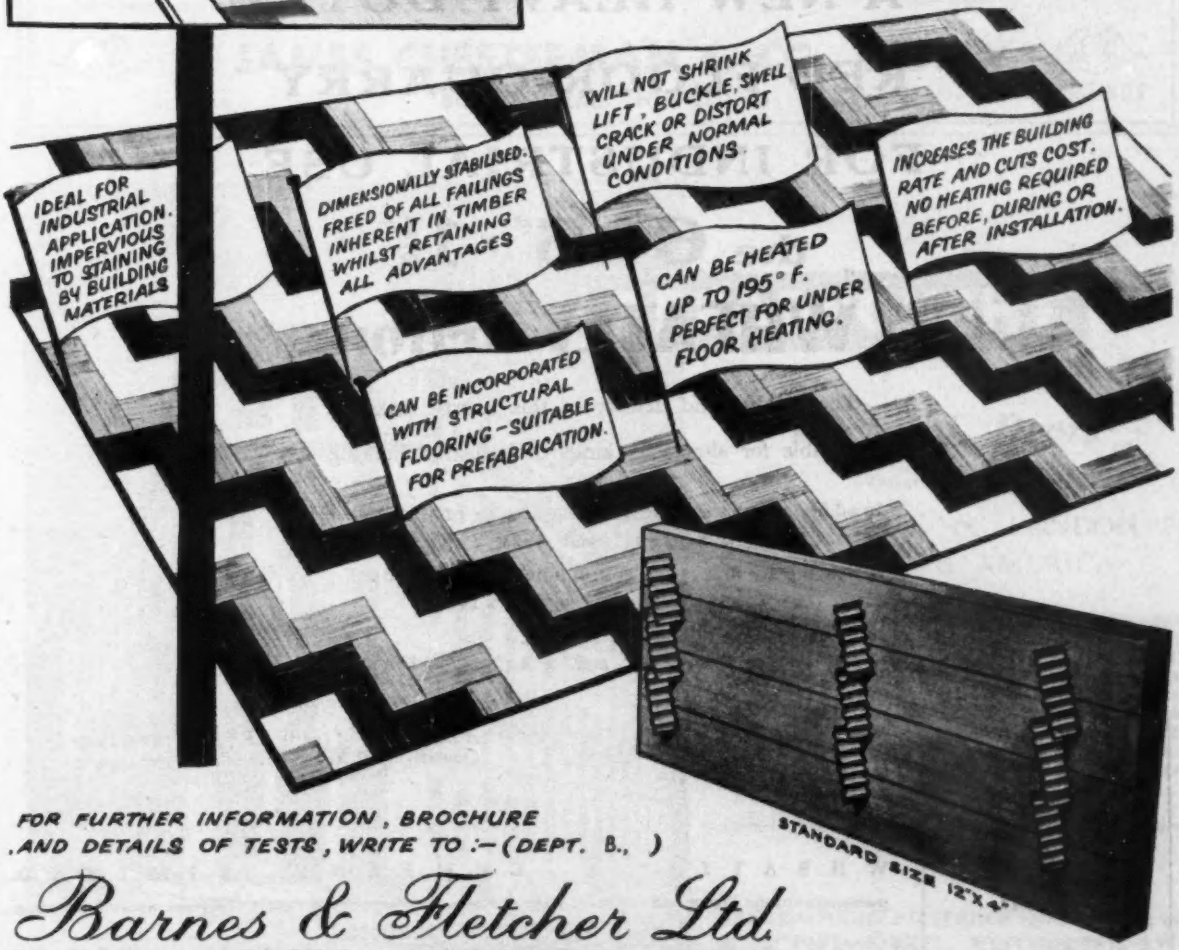

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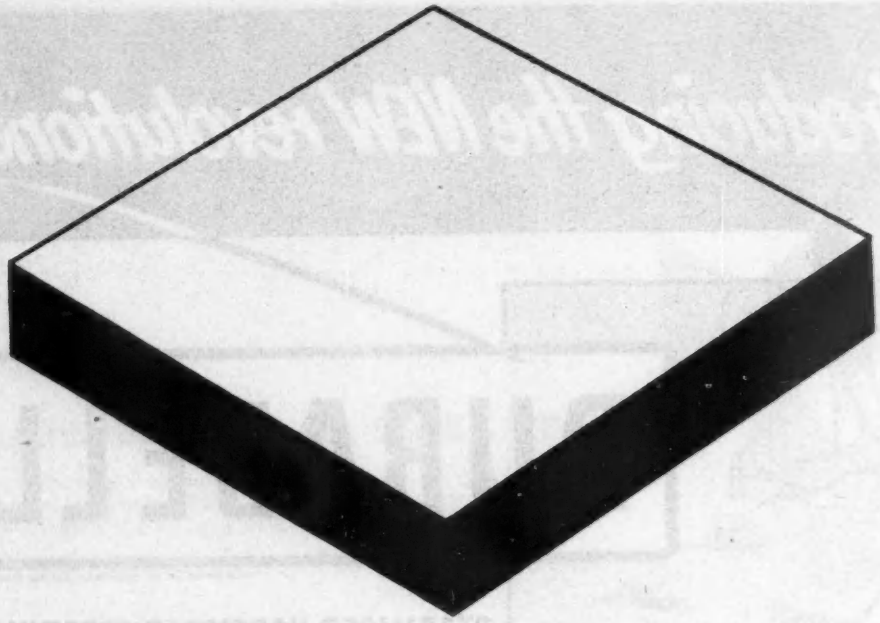

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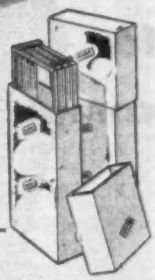

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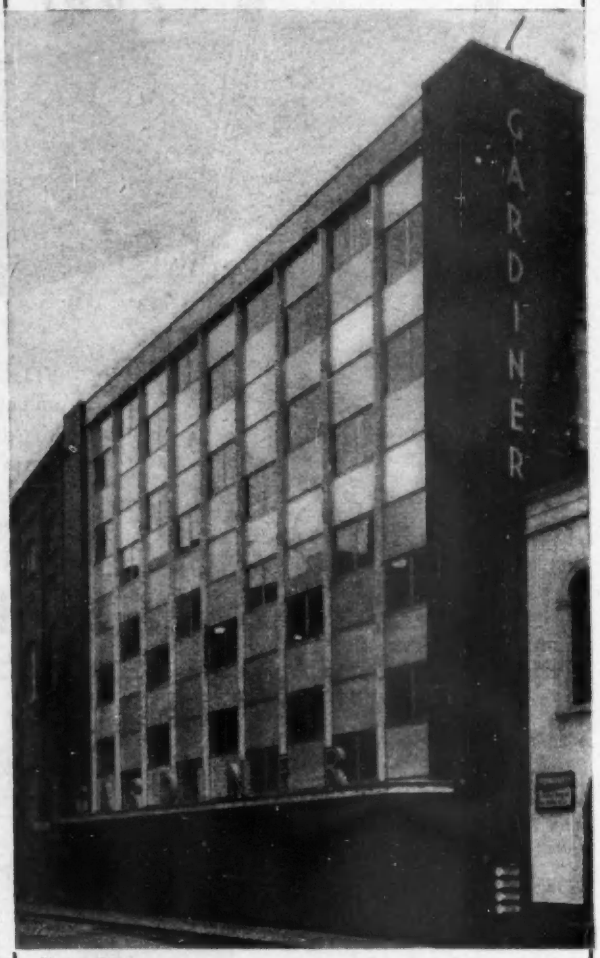

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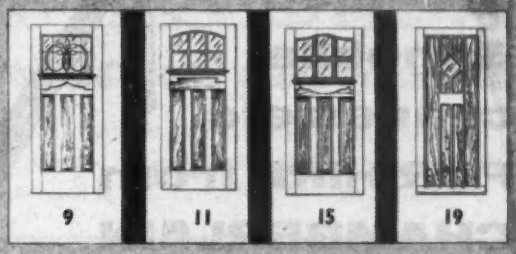

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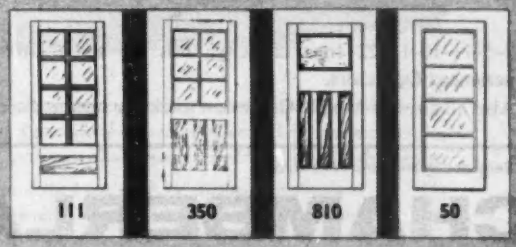

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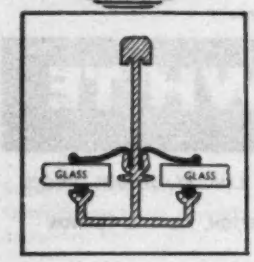

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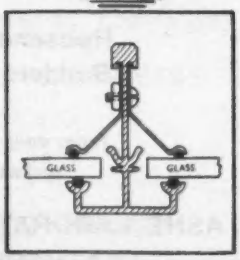

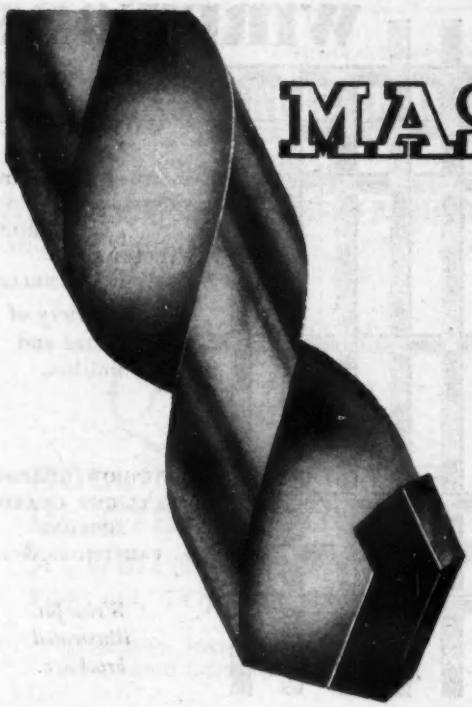

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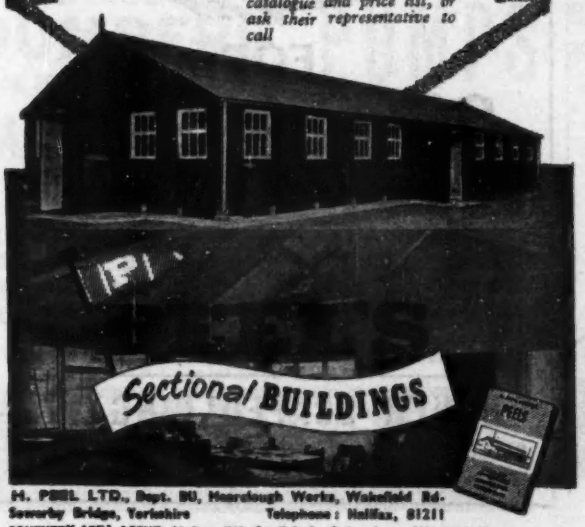

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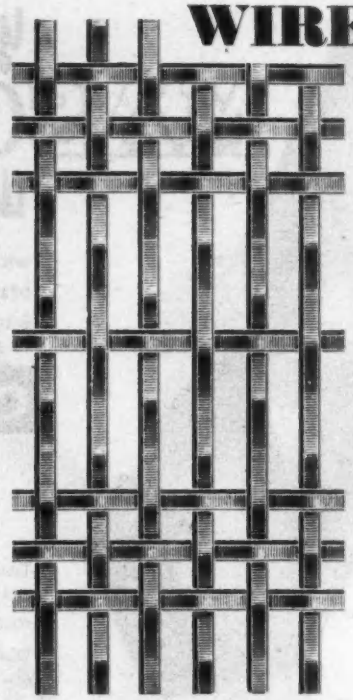

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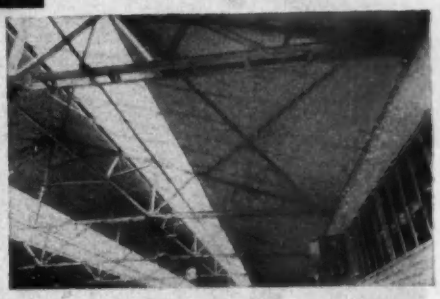

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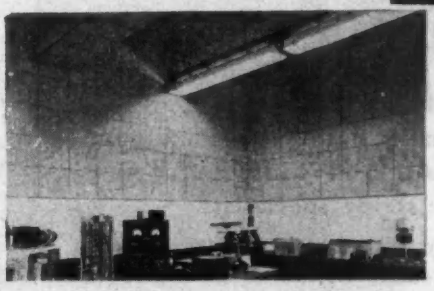

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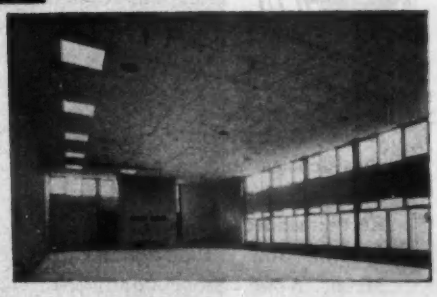

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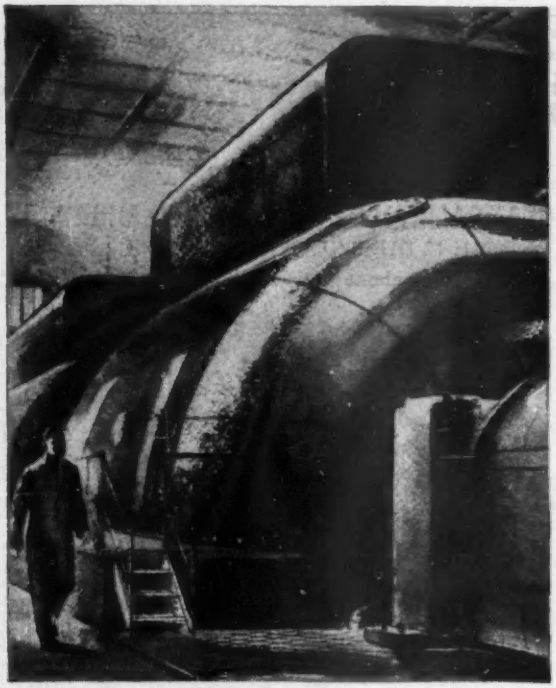

The world's largest Generators will help to fill the demand for still more power

The development of nuclear energy for generating electricity is still front-page news. Less publicised, though no less outstanding, are new developments in "conventional" generating plant. The turbo-alternator shown here is a 550,000 kilowatt unit – twice the capacity of the next largest on order for the Central Electricity Generating Board. It has been designed for the projected new power station at Thorpe Marsh. For Blythe 'B', another new station, 275,000 kilowatt in-line units are on order. They will be powered by steam at 2,350 lb. per sq. in. and 1,050°F, with reheat to 1,000°F.

Nuclear power will play an important part in meeting the ever-increasing demand for electricity. Work is now in progress on the first three nuclear power stations, at Bradwell, Berkeley and Hinkley Point. By 1966/7 some 5 to 6 million kilowatts of nuclear-generated electric power will be available.

Though these projects will not be completed for some time, the Central Electricity Generating Board plays an important part in today's fight against inflation. Power stations are being built at a cost no greater than in 1948 – £50 per kilowatt installed. And, although the output of the industry has doubled since 1948, the increase in manpower is only about one-third.

By providing today for the power we shall need in years to come, the Central Electricity Generating Board is building a secure foundation for our future prosperity.

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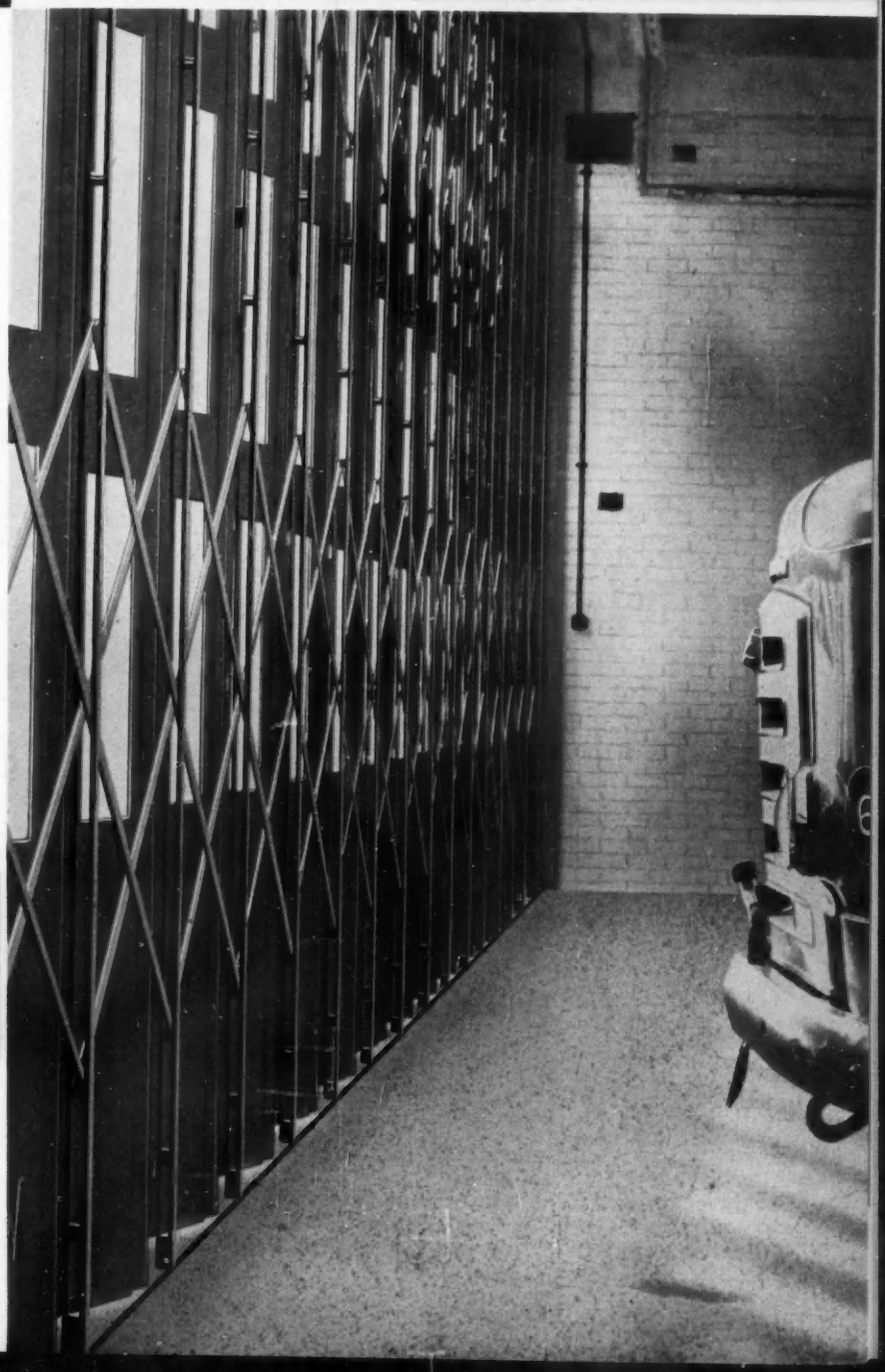

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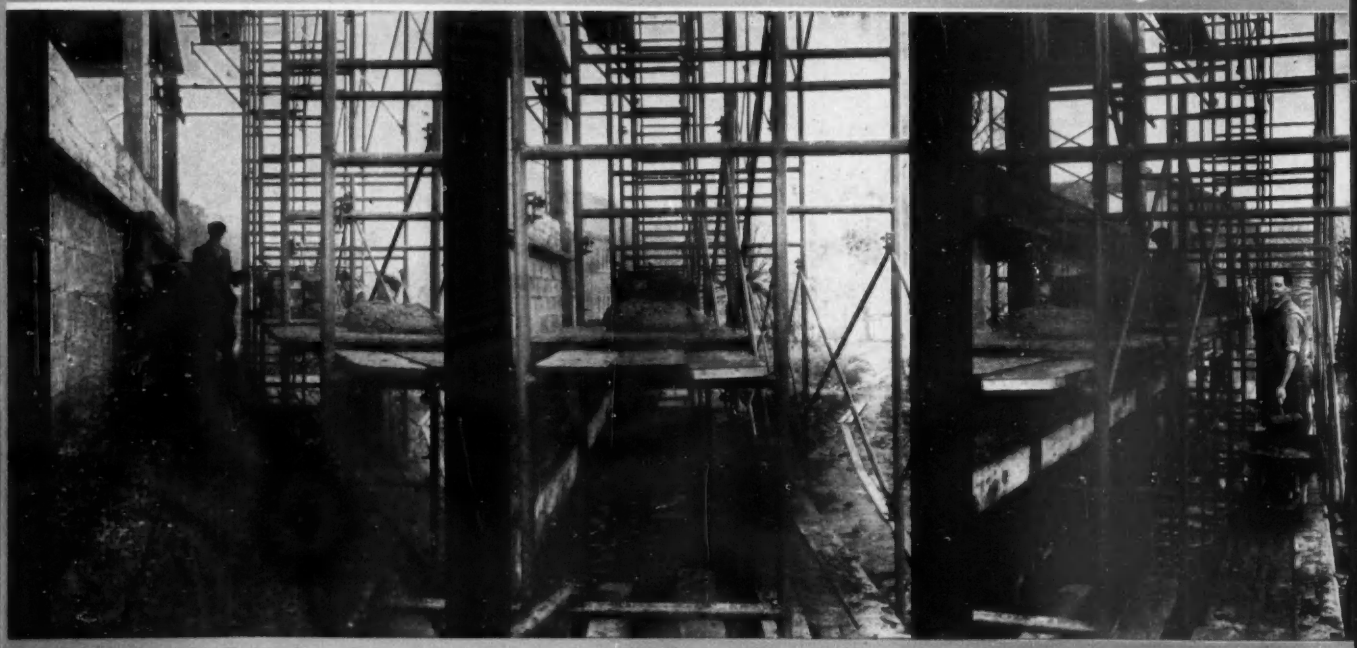

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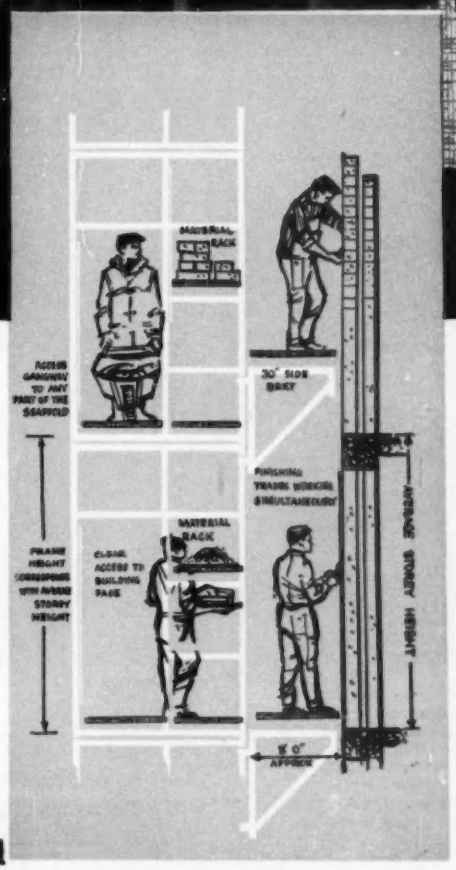

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This is one of many post-war housing schemes carried out by the Borough of Croydon, in which Kleine construction was used.
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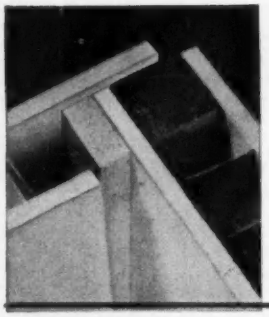

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Consists of two Paramount Plasterboards enclosing a fibrous core in the form of square cells. The complete construction is a ready-made non-load bearing wall unit of great strength and rigidity. Light in weight, highly fire-resistant, with good sound and thermal insulating properties, it is easy to handle, cut and erect, saving considerably on site labour. Off-cuts have the same strength as the original panel and are most useful for constructing built-in wardrobes, airing and meter cupboards, etc.

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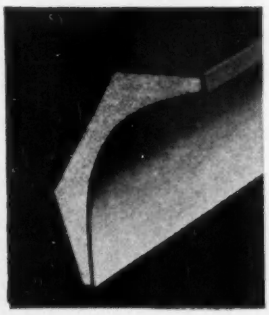
Consists of Paramount Plasterboard with one surface covered by a veneer of bright aluminium foil, which greatly increases its thermal insulating properties. Strong, durable and inert, Paramount Insulating Plasterboard provides maximum thermal insulation plus high fire resistance plus economical cost (less than a penny per sq. ft. extra) plus the important advantage of easy, speedy Dry Construction.

The recent Thermal Insulation (Industrial Buildings) Act emphasizes the need for National Fuel Economy. Paramount Insulating Plasterboard complies with all the requirements of the Act.



Paramount COVE

Consisting of a core of Gypsum plaster encased in strong paper liner, Paramount Cove is, in effect, plasterboard moulded into a cove section. As such, it has all the advantages of plasterboard, including fire-resistance and ease of fixing. Paramount Cove, a factory-made cornice, is an excellent means of concealing unsightly cracks between walls and ceilings. Its simple but distinctive lines greatly improve the appearance of any room. Being a "dry" product, decoration can be carried out immediately.

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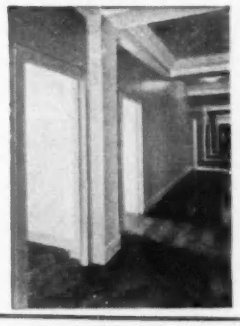
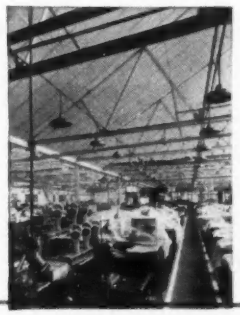
Paramount Dry Partition used as an internal lining in a modern house.



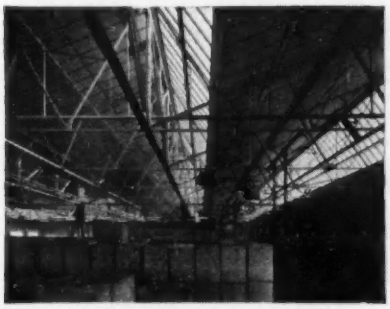
Paramount Dry Partition used for conversion work in Lloyds Building in Leadenhall Street, London.

Paramount Plasterboard used as a lining to traditional walls.

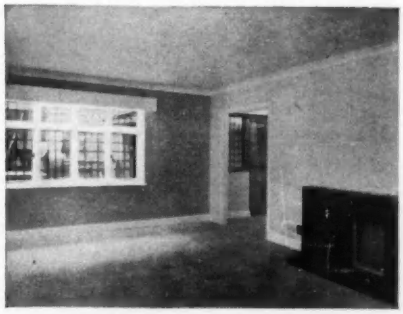
Blue Hawk RSJ Clips employed to clad beams with Paramount Plasterboard.



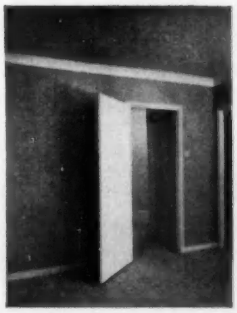
Paramount Insulating Plasterboard used as a roof lining in the factory of Venner Accumulators Ltd., New Malden. Note the parking meters for use in London.



Paramount Insulating Plasterboard used for the roof lining of the new factory for Messrs. Bryant & May Ltd., Glasgow. Making matches safely — no fear of flame or smoke spread.



Paramount Cove used to mask junction of walls and ceilings in a modern bungalow. No unsightly cracks.



Paramount Cove used to modernise an old-fashioned interior.

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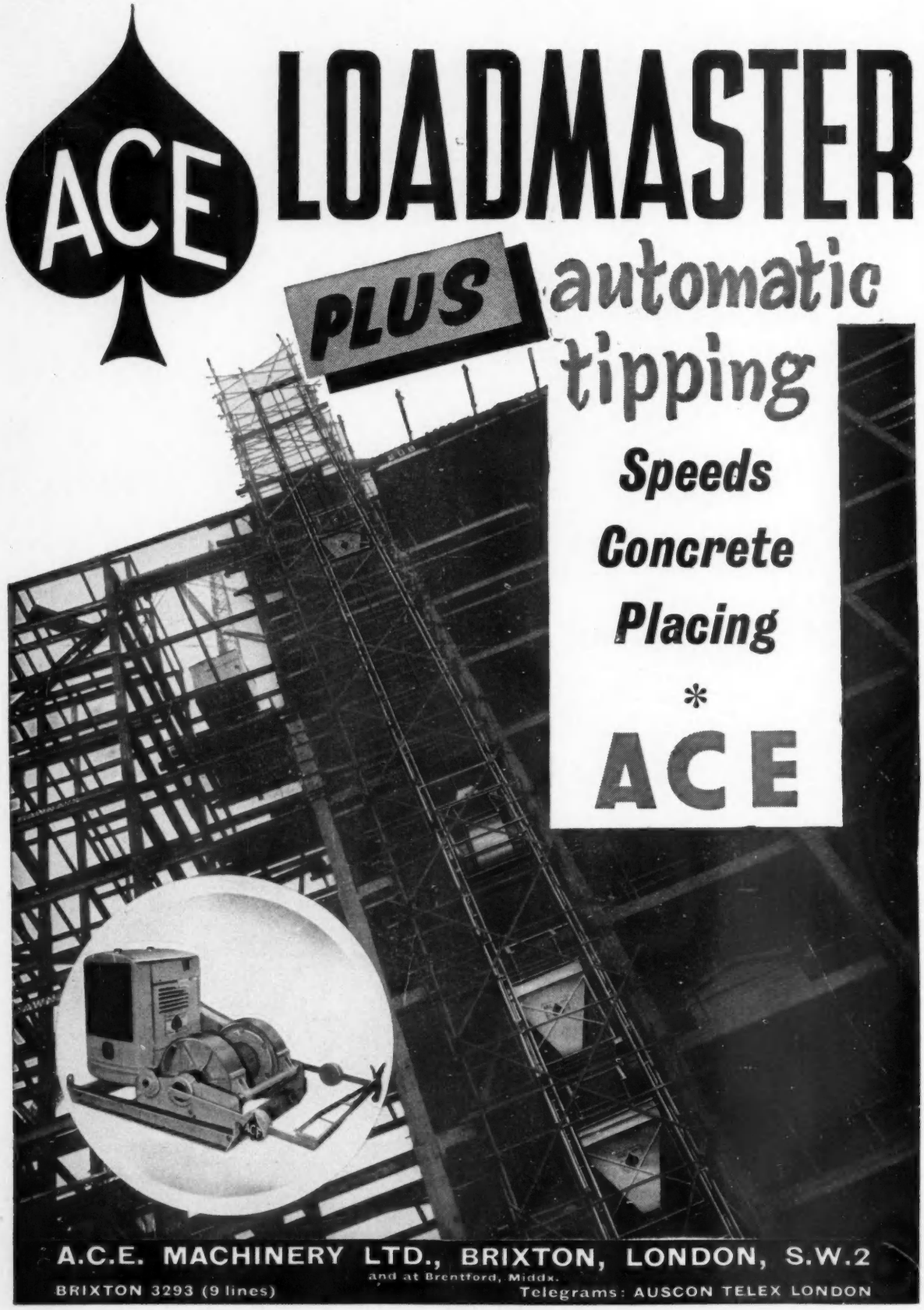
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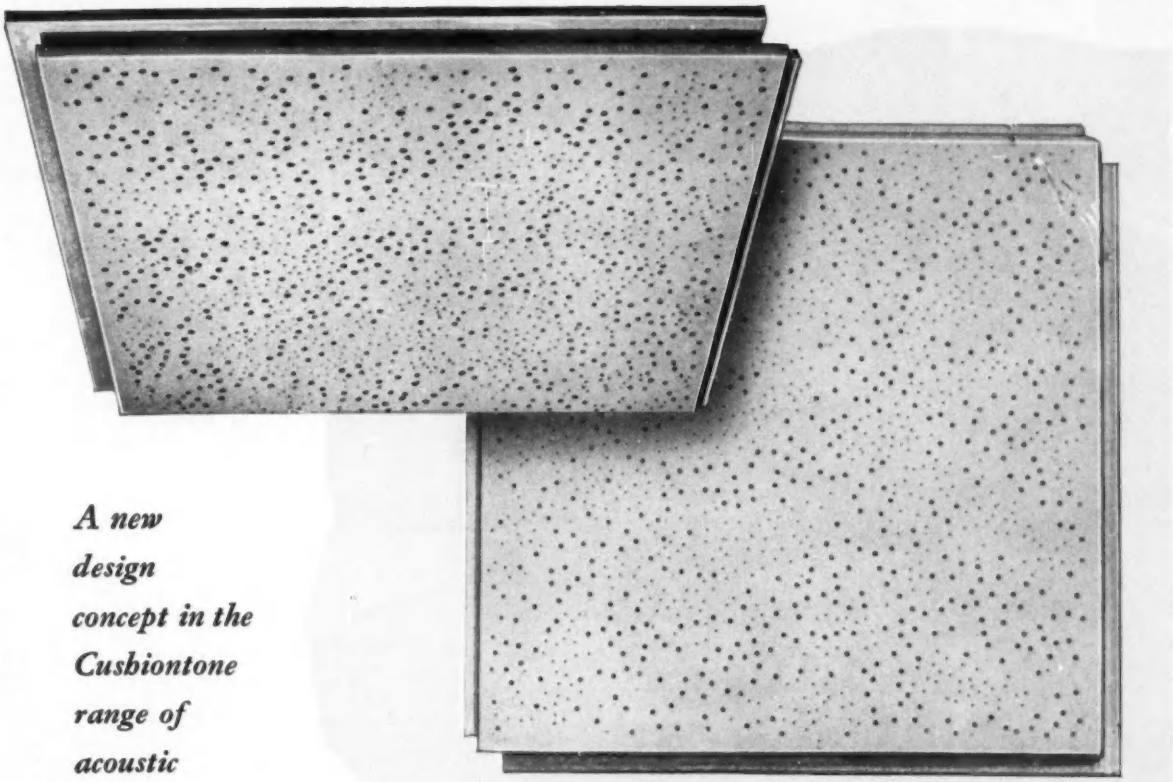

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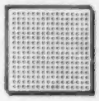

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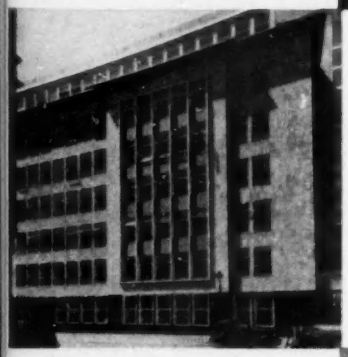

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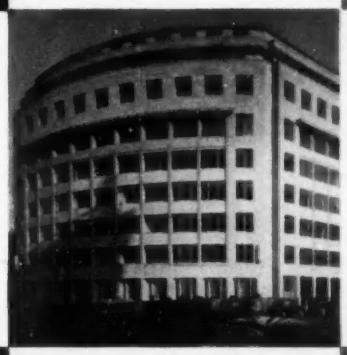

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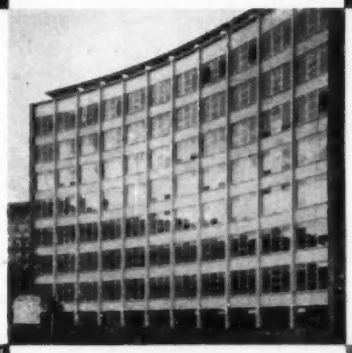

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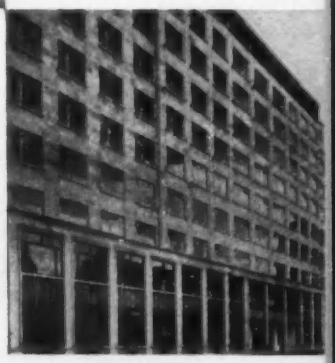

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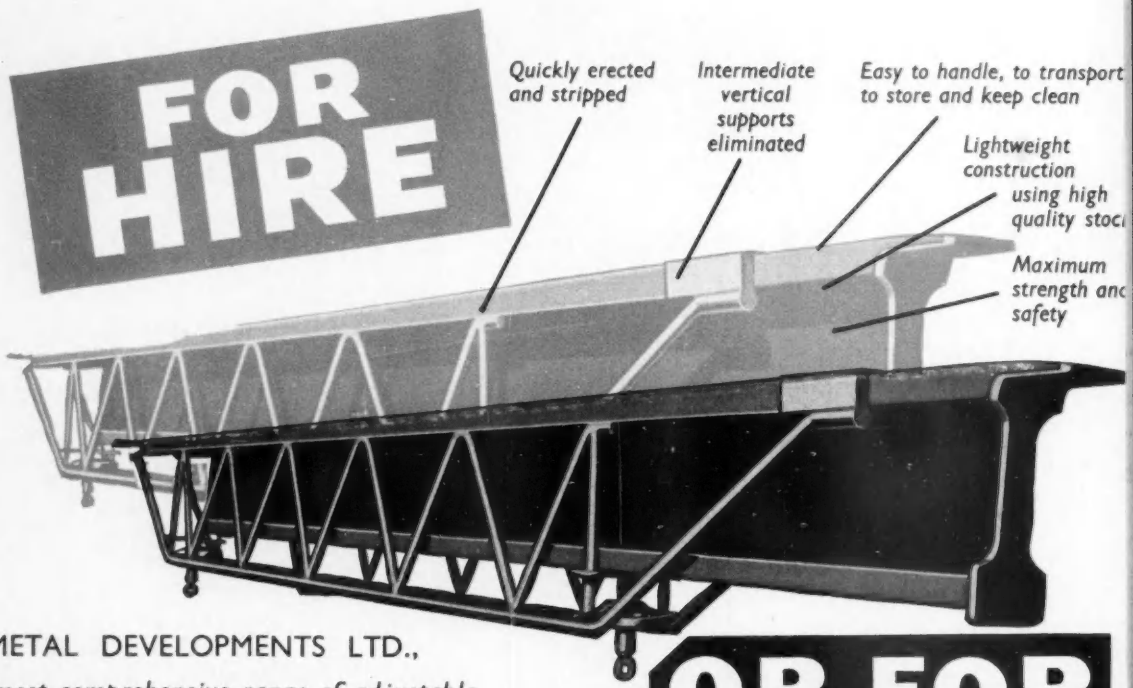

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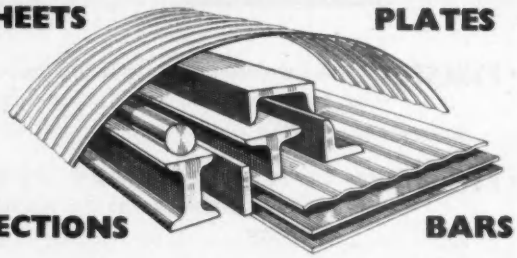

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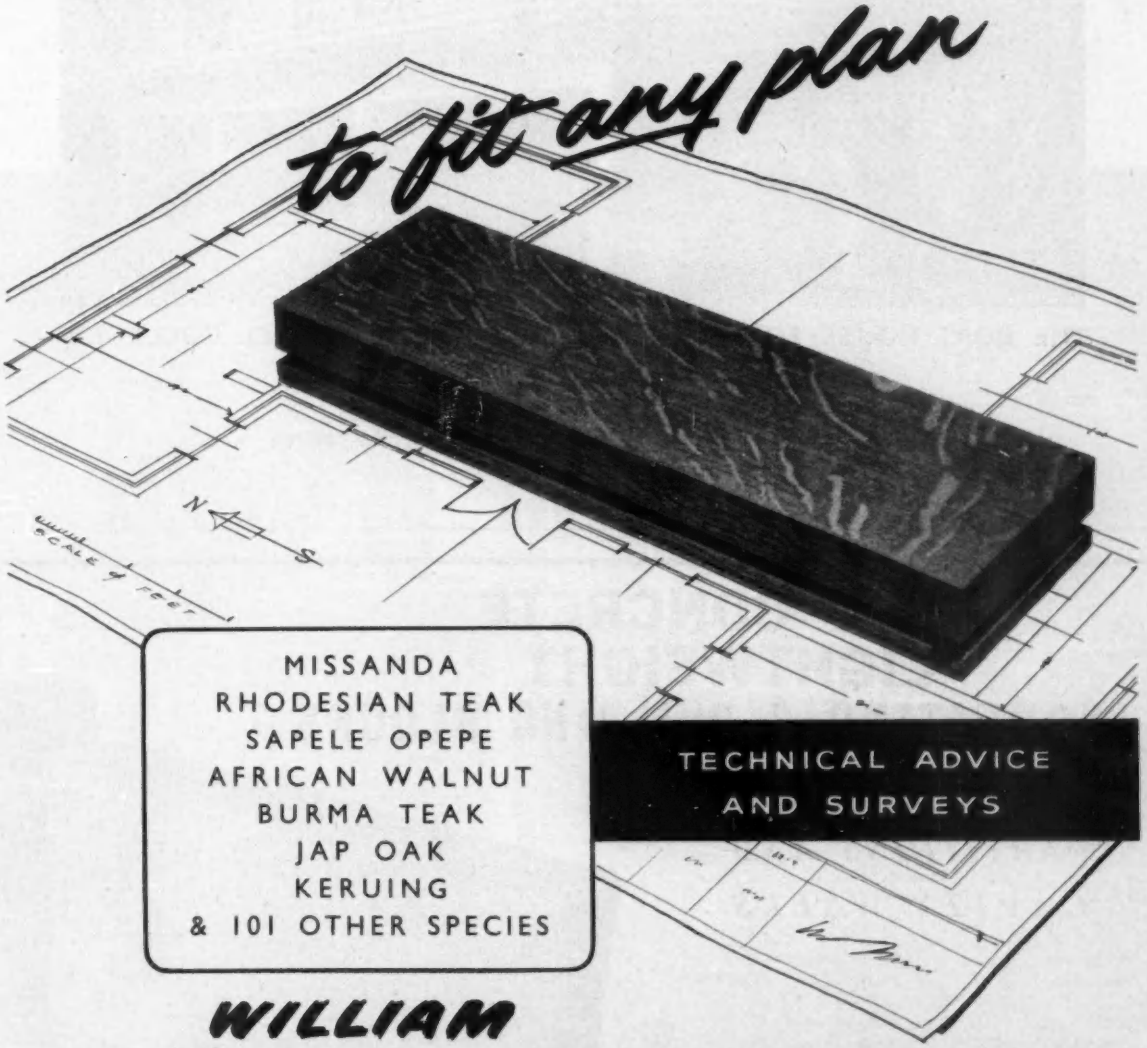

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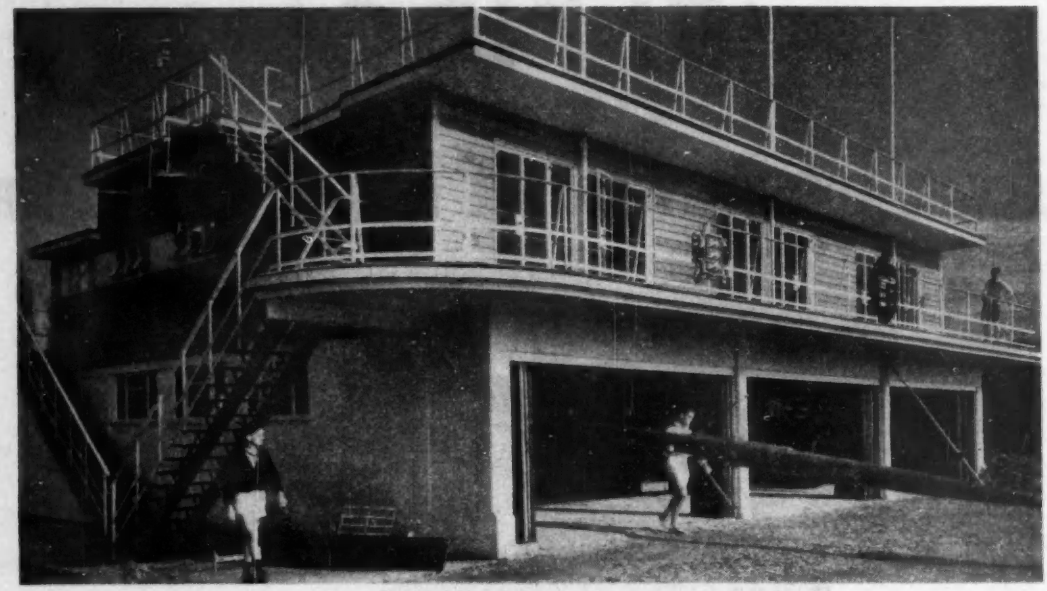

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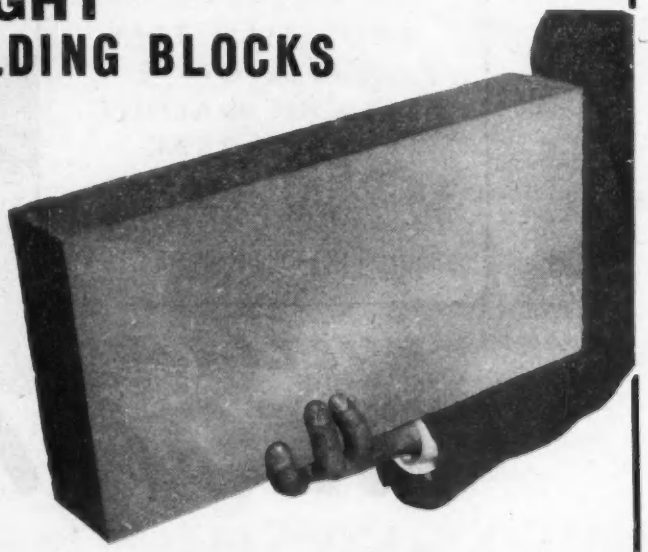

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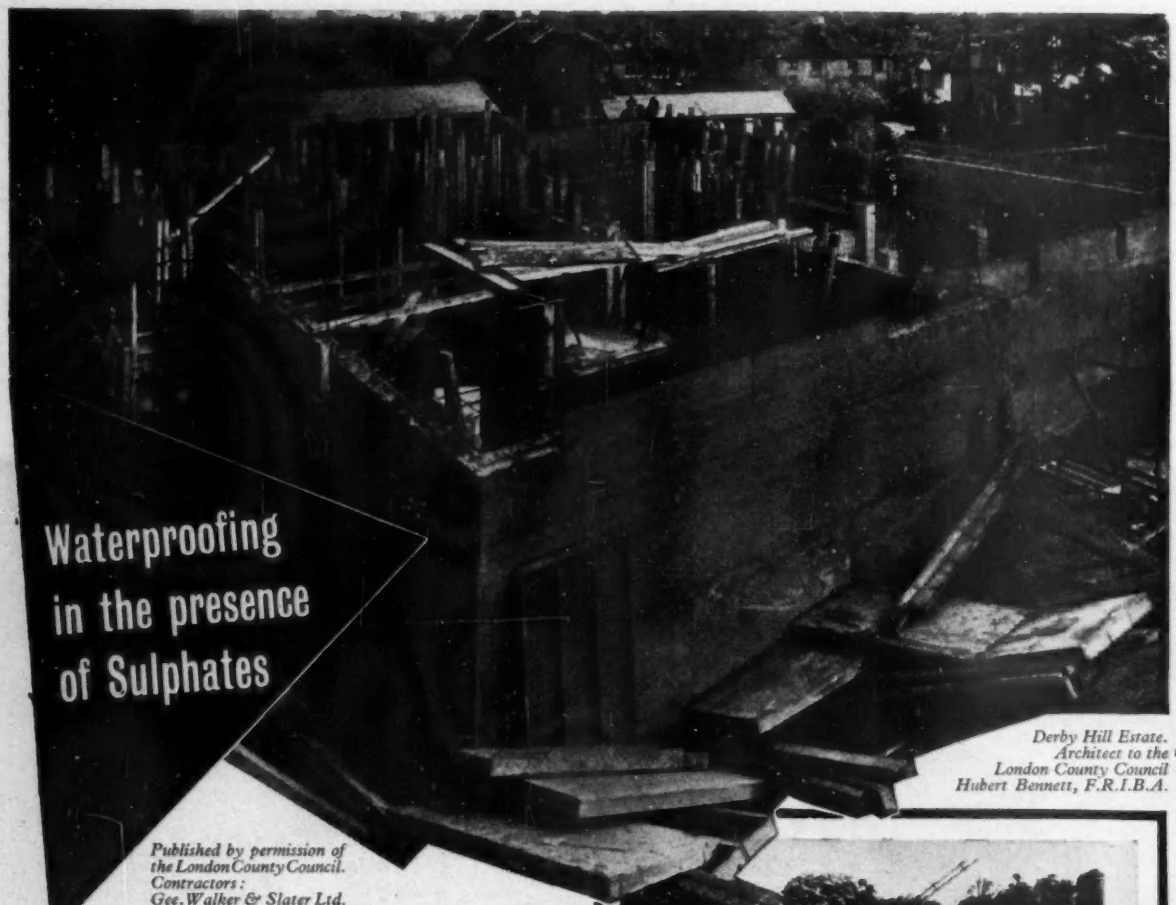

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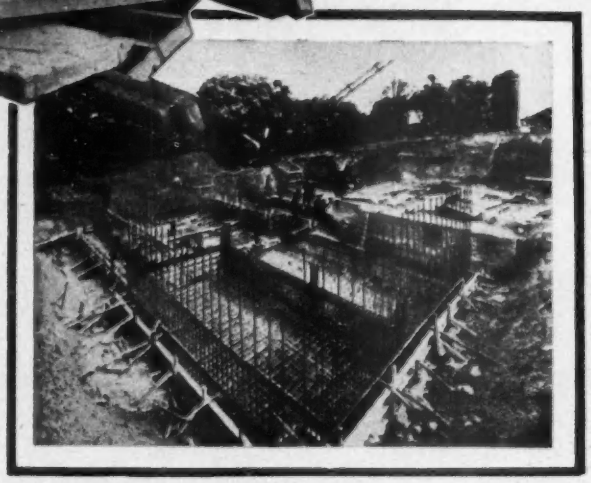

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NEWS SUMMARY

SHORTAGE of funds makes 'some retrenchment necessary' in the work of the Historic Buildings Council for England. p. 920

THE COURT OF APPEAL upheld the award of damages against a builder in a case where damage to a house occurred owing to the settlement of the foundations. p. 932

BOTH privately built and council houses will be covered in a review of housing standards that is being undertaken at the request of the Minister of Housing. p. 934

SALOP CC approved the preparation of detailed plans for new County Offices at the Column site. p. 937

A SWEDISH architect has devised a system of sunray heating for buildings making use of 'heat accumulators.' p. 940

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THE BUILDER

Incorporating ARCHITECTURE & THE BRITISH ARCHITECT

Vol. CXCVI May 22nd 1959 No. 6060

FORWARD-LOOKING SCOTLAND

SCOTLAND has at present a great deal to interest the architect and planner, especially in the Glasgow area. If the attraction of London, both culturally and industrially, is an embarrassment to its central authorities, how much more is Glasgow which now embraces one-quarter of Scotland's population, and constitutes as a result a major planning problem with which central and local authorities, and their planners, are now grappling.

The report presented in 1946 to the Regional Advisory Committee (set up in 1943 by Mr. Tom Johnston as Secretary of State for Scotland) by the late Patrick Abercrombie confirmed earlier estimates that the surplus of Glasgow population was rather more than 250,000 and showed that the re-housing of such numbers was beyond remedy on a local basis. Abercrombie recommended that there must be limitations on expansion at Glasgow's periphery, and that families displaced by clearance should be re-housed outside the city boundaries. This principle of thinning out the most congested central areas and of creating new communities and enlarging existing ones away from Glasgow's doors is now firmly established, and is under way. Of these processes by far the more difficult is the finding of existing communities able and willing to take some part of the overspill, primarily because even well-disposed 'reception' authorities must be assured that sufficient work is available for the newcomers. It is good to hear that, in spite of the difficulties, Glasgow has already concluded arrangements with nine authorities to take overspill population, and is in negotiation with about 30 more.

Within the city itself, big changes are soon to come about in the Hutchesontown-Gorbals area, which has the unenviable reputation of being probably the worst slum in the world. Low housing, with tall blocks, will give an increased amount of open space, offering liberal breathing space to this sad area. Outside the city boundaries the new town of Cumbernauld is making a promising start under the direction of General Sir Gordon MacMillan, the chairman, his live committee and a keen team of principal officers of whom the chief architect and planning officer is Mr. L. Hugh Wilson. This will be the first of the new towns not to be sub-divided into neighbourhood areas but being planned as a cohesive whole.

All this work, coupled with very great private developments in building, means that Scottish architects are busy, even in some cases overloaded, with projects. There is some shortage of staff, especially architectural assistants, and good opportunities offer themselves to men who are prepared to go north. It is encouraging that not only is a larger proportion of total building being done by the profession but that industrialists are bringing in architects at the beginning of the projects, and not merely to 'doll up' buildings after the engineers have planned them. The Kincardine power station and the large ICI storage plant at Leith are examples. Scotland has also taken a lead in bringing its building regulations into one cohesive code. The Building (Scotland) Act, now on the statute book, should be an enormous step forward in simplifying planning and construction. How long will England be in following suit?

It would not do were the impression gained that all is well in Scotland. As to the architectural profession, there are still pockets of resistance where the value of bringing the trained designer's knowledge to bear on enhancing both the standard of living and the unique character of Scotland's towns and landscape is not recognised. And there are also local authorities, notably Glasgow Corporation itself, where there is over-anxiety to keep in being, even to develop, direct labour departments. There is no doubt that this form of building, which has come about largely through Scottish builders' own fault, has been enabled to play a considerable part in supplying building needs, but that time is now largely past and it is right that private builders should have the opportunity (and carry the inherent risks) of tendering for public work.

Notes of the Week

Scottish Journey

EVEN Sassenachs, who need to be prised from their English setting to go North, must find May in Scotland as something rare and of its own kind. The tulips and primroses, all but over in the south, are still in full bloom, and not in Princes-street's gardens only. In the air is that particular softness matched only by Glenlivet water, and people as well as flowers unbend in the sun, remove their mufflers and hats and call for doubles of their favourite brand.

The air traveller comes to Glasgow by way of Renfrew airport which, like its Edinburgh counterpart at Turnhouse, begins to look a little weatherbeaten, in the manner of buildings which depend for effect mainly on surface treatment and colour. Only subconsciously does the point re-register itself that of the 200-minute journey from West London air terminal to the centre of Glasgow, all but 80 minutes is spent in buses and in waiting time. On this particular run, without customs, such time can surely be cut?

Glasgow itself, waiting that morning to receive Princess Margaret as Honorary Colonel of the new Royal Highland Fusiliers, gave little indication of anything out of the ordinary. No red carpets, no flags and only the most makeshift canopy in George-square! But the warmth of Scotland's welcome is never to be gauged by external appearances, and the Princess must have been as well pleased by the enthusiasm shown by the crowds as by the smart bearing of her new regiment.

* * *

OF NEW BUILDING, there is not a great deal in evidence in central Glasgow though two of the great store moguls are building new palaces on sites almost adjoining. In the outer districts, however, there is much going on and most architects, according to JOHN WATSON, are very busy and would be well satisfied were architectural staff more readily available. Most of the output of the Scottish architectural schools make a bee-line for London, it seems. Builders also are well occupied, though worried, DAVID MCCOWAN HILL tells us, by the tendency of certain of the city corporations to make over-use of direct labour departments. McCowan Hill, solicitor by profession, has been secretary to the Scottish Federation of Building Trades Employers for over 30 years, and it would be difficult to say whether in him kindliness exceeds native shrewdness, or vice versa. Both qualities were in evidence at a luncheon arranged by him for your Correspondent at the Glasgow Conservative Club attended by two past-presidents of the Federation in JACK HENDERSON and JACK TRAIN (the latter also past-convener of the Glasgow Trades House), W. MCCREA, past-president of the Glasgow Institute of Architects, and A. H. PURDIE. Mr. Purdie is the doyen of Scottish chartered quantity surveyors and retires at the end of this month from the firm of Dansken & Purdie, of which he is senior partner. As the firm celebrated its centenary last year, it must rank as the oldest in Scotland.

Cumbernauld New Town

IN THE MORNING, McCowan Hill and his deputy, MR. IAIN ROSS, organised a tour of the new town of Cumbernauld, which lies about 12 miles from Glasgow on the Stirling road. Newest of the new towns, there is not as yet a great deal to see, but the enthusiasm of MR. L. HUGH WILSON and his fellow architects and colleagues makes it pretty clear that rapid progress may be expected. The land is not overall suited for building by reason of mining; partly for this reason but also because Hugh Wilson and his Corporation believe in the virtues of a fully integrated town, the buildings will be contained within a rectangle roughly two miles long by half-a-mile deep on the crown of the ridge. This will, in fact, be the first new town which is not to be broken up as neighbourhood units, though primary schools will be sited strategically, and an attractive system of bridle paths make it unnecessary for the children to get involved with roads. Hugh Wilson has brought with him the same qualities of enthusiasm and enterprise that made him so successful at Canterbury. He is making the fullest use of existing buildings and trees.

Edinburgh University Plans

ON TO EDINBURGH, by the excellent and speedy Diesel train, to meet ROBERT MORTON, one of the three deputies to T. A. JEFFRYES, chief architect in the Department of Health for Scotland. Edinburgh nowadays has several excellent restaurants within a few miles of the centre, and after dining excellently in one of these which shall be nameless, next morning we viewed with him the site proposed for the new University buildings in George-square, a spec. builders' enterprise of a century ago. It is proposed to retain the west side of the square but to put up new buildings for the School of Medicine along the north side, and other buildings for the university's needs (including the school of architecture) on the east and south sides. This plan, with which both BASIL SPENCE and ROBERT MATTHEW are connected, has caused some sentimental outcries, but the truth is that the existing square is not very good, and the new buildings should enable the University to group cohesively a number of scattered departments.

* * *

THIS TOUR had been preceded by a visit to the University staff club in Chambers-street where behind a rather undistinguished façade HARDY GLOVER, partner in charge of Basil Spence's Edinburgh office, has created a most excellently conceived and decorated club, in which structure, decoration and furnishings obviously have been designed by the same mind and hand. Our host, a woman lecturer, was personally enthusiastic but wryly admitted that some others were not equally so, and that there were sighs for the black leather chairs and steel engravings of the Victorians. On to lunch with the Edinburgh Rotary Club, where your Correspondent attempted to strike a few blows for the cause of architecture, particularly in making better and earlier use of the profession in industrial projects. The audience, which included MR. TOM MARWICK, most talented of Edinburgh architects and a product of the AA, and SIR JAMES MILLER, a former Lord Provost and, very possibly, a future Lord Mayor, who divides his time between building schemes in Edinburgh and London, was traditionally kind, and grateful to be reminded of its great architectural heritage.

Then, after an afternoon spent walking about sunlit Edinburgh and pre-dinner sherry with GEORGE LAWRENCE, deputy architect DHS and incoming President of the Edinburgh AA, and his family, back to London on the BEA 'Clansman.' Scotland indeed is full of vitality, as impractically-minded members of the Board of Architectural Education may yet find.

RAF Beacon for Kelmscott

THE Government have approved the siting of an RAF navigational beacon a quarter of a mile from a Jacobean manor house at Kelmscott, Oxfordshire, once the home of William Morris, the poet and artist. Approval is subject to conditions designed to safeguard the environment of the manor house, which is owned by Oxford University.

RA Exhibition, 1959
Design for Stained Glass Window, Our Lady of Mercy, Uckfield. By Aleksander P. Klecki

'DESIGNS OF THE YEAR, 1959'

The Duke of Edinburgh's Prize Awarded

THE year's crop of this annual at the Design Centre (until June 13) is I think more interesting and colourful than last, writes Basil Marriott. The scope seems wider, and should suit most tastes between earthy worthiness and curly wordliness. The fabrics, and one carpet, are actually exciting but unfortunately by their nature do not photograph well for reproduction.

Sixteen products have been chosen from those shown at the Centre during 1958. From these, Mr. C. W. F. Longman, BEM, has been selected for the Duke of Edinburgh's Prize for Elegant Design for his part in designing the Prestcold refrigerator, D.301 'Packaway.'

The awards go to the following manufacturers, whose names are listed together with the designers:—

Fluorescent Kitchen Light (Atlas Lighting, Ltd.: John and Sylvia Reid).

Wilton Carpet (the Carpet Mfg. Co., Ltd.: Audrey Tanper).

Circular Dining Table (Design Furniture, Ltd.: H. El-Hayani, RCA School of Furniture Design).

Lever Handle (Dryad Metal Works, Ltd.: Roger Peach).

Woven Furnishing Fabric (Edinburgh Weavers: Humphrey Spender).

Solid Fuel Heater (Grahamston Iron Co., Ltd.: David Mellor).

Ceramic Tiles (H. & R. Johnson, Ltd.: Derek Hodgkinson).

Tripod Camera (Kennedy Instruments, Ltd.: Walter Kennedy).

Printed Furnishing Fabric (Liberty & Co., Ltd.: Gwenfred Jarvis).

Lighting Fitting (Merchant Adventurers, Ltd.: Paul Boissevain).

Refrigerator (Prestcold: C. W. F. Longman, with E. H. Wilkes).

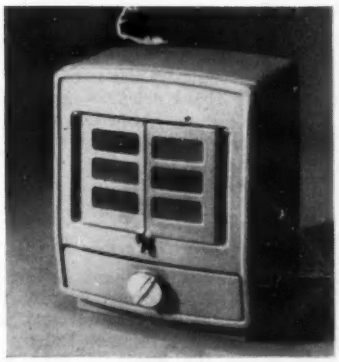
Easy Chair (Ernest Race, Ltd.: Ernest Race).

EPNS Teaset (Walker & Hall, Ltd.: David Mellor).

Chisels (Ward & Payne, Ltd.; staff directed by J. A. Hattersley).

Plastic-coated Fabric (Bernard Wardle, Everflex, Ltd.: Edward Pond).

Garden Tool (Wilkinson Sword, Ltd.: design dept. with Hulme Chadwick).

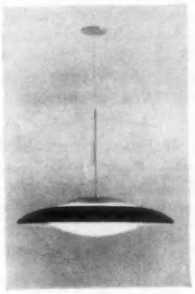


Solid fuel room heater, designed by David Mellor, DesRCA, and made by Grahamston Iron Co., Ltd.

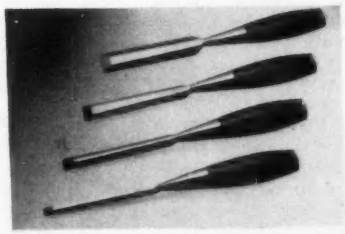
To complete what must be a catalogue rather than a crit, the Selection Panel included Sir Colin Anderson (chairman); Mrs. Monica Pidgeon; Mr. Geoffrey Dunn; Mr. F. H. K. Henrion; and Mr. Jack Howe. I wish I could give in full their sensible, and simple, reasons for their selections and hope these will be available for the public, who are I think now interested in, but still bewildered by, what constitutes good design and in whose opinion. The Selection Committee for the Duke's Elegancy prize was composed of Lady Casson, Miss Audrey Withers, Mr. Basil Spence and Sir John Summerson.

I suppose one had better mention That Piece in *Punch* rather than be thought to make a mutter about it. Those who seem to have found it mildly funny-peculiar as well as funny-tee-hee are, I think, mainly up-eyebrowed by the timing of its publication, all things considered. I don't think the apparent official approval of this frankly 'inside job' means that the CoID takes itself and its work less seriously than it invites the public and Press to do; but I do think it was rather an odd gambit. If this last paragraph is too cryptic for those who read *The Builder* but 'didn't see *Punch* last (or whatever) week,' so much the better, as less (if any) harm will have been done.

The Prestcold 'Packaway' refrigerator with which Mr. C. W. F. Longman, BEM, has won the Duke of Edinburgh's Prize for Elegant Design



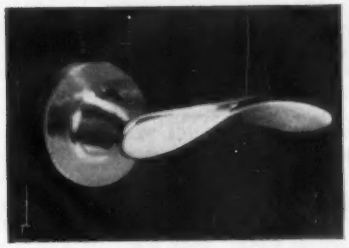
Flex suspension type lighting fitting with enclosed glass reflector, designed by Paul Boissevain, Dip Arch, MSIA, and made by Merchant Adventurers of London, Ltd.



Socket chisels, designed by the engineering staff of Ward & Payne, Ltd., directed by John A. Hattersley

Prince Philip's Views

Replying to Sir Walter Worboys, Chairman, CoID, when he visited the Design Centre on May 15, PRINCE PHILIP said: 'This year sees the introduction of this new Prize—this new award for Elegant Design—and it differs in several important respects from the Designs of the Year. In the first place it is intended as a prize for the designer and not for the maker. And the second thing is that the panel is chosen by me and therefore it is entirely independent in every sense of the Council of Industrial Design.



Lever handle, designed by Roger Peach, FSIA, and made by Dryad Metal Works, Ltd.

'The idea of choosing this criterion of elegance is to encourage a positive attitude towards design as a whole. There are many good and useful objects which somehow just miss this rather elusive quality. And the real prize is supposed to be a real encouragement to the designer in that he is allowed to design his own prize; in fact it is to give him a chance to have a stab at that secret fancy of his, which I am sure all designers have, unfettered by the whims of their employers or anyone else.

'The report of the panel describes and gives the reasons for our unanimous choice and I personally am satisfied that in its own field the winning design has the quality which I had in mind when I suggested the Prize.'

BOOKS

***Books noted in these columns may be obtained on application to the Book Dept., 'The Builder,' 4 Catherine-street, Aldwych, WC2. Cash (to include postage on books to the value of 10s., 9d.; over 10s., 1s. 6d.) should accompany the order.*

PREFABRICATED BUILDING — A SURVEY OF SOME EUROPEAN SYSTEMS. (European Productivity Agency, OEEC.) 123 pp. generously illustrated. Price 12s. 6d. from HMSO.

THE systems are put into groups according to their chief constructional feature —wood, steel, clay elements, storey-height concrete units, etc. Both flats and houses are included, but it is impossible, without actually counting, to say how many systems are mentioned, for—inexplicably—there is no index and no numbering; sometimes not even titles. On average each system seems to get somewhere about a dozen lines and usually one photograph only. It is comforting to be able to say that those lines and photos are usually well chosen and succeed in putting across a surprising amount of information; but it is impossible not to regret that the text is so insubstantial, for the original material must have been unique. Eastern Europe is not represented, because it plays no part in OEEC activities.

The very limited treatment makes one ask who or what this is for, but it is impossible to say and the prefaces give no help. It seems a good example of what can happen if you do not define your audience clearly and write directly for it. Administrative people may find it a useful sketch, and experienced developers might have the insight to see significance which others will miss; but even they would appreciate more information, not only about construction, but by assessment of architectural and economic aspects. Basically this was a project well worth doing, but it was worth doing a little bit better. J.B.C.

MODERN FLATS. By F. R. S. Yorke and Frederick Gibberd. (London: The Architectural Press). Price 63s.

'MODERN FLATS,' as the authors say in their preface, is really a picture book in which are recorded in photographs, plans and diagrams, some of the more distinguished flat buildings which have been built in post-war years throughout the world—to be exact, in fifteen different countries. 'As such,' they say, 'we felt that no critical commentary was called for.' Their feeling in this respect must have saved them a vast amount of bother, for the subject is one about which controversy rages. They show us what is being done and the reader can provide the pros and cons which, had they all been included, would have swelled their book to several volumes.

Strictly speaking a 'flat' is a dwelling house on one floor. It is distinguished from the 'bungalow' by being a unit in a larger building in which these single one-floored dwellings are superimposed. Elementary, my dear Watson, but this basic fact has led to some remarkable developments. Once start going up and it would seem that the sky's the limit, or it might be if economic considerations did not come in.

Compared to what is called open development, with separate single dwellings, this kind of vertical housing saves land, reduces roads and services, permits a higher density, puts people nearer their places of work or recreation, lessens the fatigue of travelling and the time spent on it, and, with proper planning, and without detriment to these various advantages, maintains an urban character with adequate public space.

All this adds up to a formidable list of benefits. But some people, and probably a great many, naturally or perversely, according to the view you take, prefer, and insist on, a dwelling with no one else above or below, and a small plot of land, both of which they can call their own. They may, like Candide, wish to cultivate their garden, they like to have their children out of doors (so different from a balcony) and well in view and within reach. Stout individualists, one and all, rearguard of a dying race or the vanguard of a rising generation, they firmly turn their backs on the human (or inhuman) filing system of the great tall blocks of flats—they refuse to emulate the battery hens and broiler ducks.

Admirable intentions, but can they, on any extended scale, be realised? Multiply the single dwelling by any large number and visit any large 'housing scheme,' so produced, and discover what sense of isolation, what desolation and devastation, is thus created.

And then, as the reader considers the pros and cons, which the authors have so prudently avoided, he may be tempted to say 'A plague on both your houses,' or (more accurately), on both your kinds of housing. In this day and age we need as a basis for living, as distinct from shelter, something far more intelligent and all-embracing than mere multiplication, vertically or horizontally, can provide. And many of our best planners today (including the authors of this book) are trying, very hard, to provide it.

JAMES BURFORD.

DESIGN TABLES FOR STANDARD REINFORCED CONCRETE COLUMNS. PART TWO: SAFE LOADS AND PROPERTIES FOR RECTANGULAR TIED COLUMNS TO CP 114 (1957). By Anthony d'O. Smith, 17 Grosvenor-road, Richmond, Surrey (copies by post only). Price 10s. post paid.

THIS volume is intended to be used by the reinforced concrete designer as the standard steel section books and tables are used by the steel designer.

The tables should fulfil a useful purpose on the desk and by the drawing board of any engineer, designer, or architect working with reinforced concrete. They will save work and greatly reduce the chance of error, and will be appreciated by those charged with getting the job done in a reasonable time, with a minimum of time-consuming calculations and design expense.

All the tables have been carefully figured and checked.

BOOKS RECEIVED

GAS FITTING (Intermediate). By D. M. Holloway. (London: English Universities Press Ltd.) Price 21s.

CONSTRUCTIONAL CARPENTRY. By Frank Keeling. (London: Cleaver-Hume Press Ltd.) Price 25s.

HUTCHINS' PRICES SCHEDULES. 15th Ed. Compiled by Thos. V. Hutchins. (London: G. H. Lake & Co., Ltd.) Price 70s.

CORRESPONDENCE

Decoration of Old Churches

To the Editor of *The Builder*

SIR,—In recent years there has been a widespread return to the use of limewash as a decorative treatment of the interior wall surfaces of churches and other buildings. The Central Council for the Care of Churches has always encouraged its use, as a traditional material offering certain practical advantages over modern distempers in old buildings.

It frequently happens that the advice of the Council is sought over the question of the best and simplest methods of mixing and application to secure results which are long-lasting and satisfactory in texture and tone. In this connection, and with a view to revision of the Council's existing publication, 'The Redecoration of Ancient Churches,' we are anxious to collect as much information as possible from architects, builders and others who have had experience in the use of limewash in old buildings without dampcourses, and who have developed their own recipes and techniques, or used traditional recipes with good results. We are interested in methods of application effective in the treatment of modern cement/sand plasters, bare stone and brick, as well as old lime plaster.

The wishes of any correspondents who would like their information regarded as confidential will, of course, be respected.

JUDITH G. SCOTT [FSA],
Secretary,
Central Council for Care of Churches,
Fulham Palace, London, SW6.

'The Face of The Firm' Exhibition

To the Editor of *The Builder*

SIR,—Rather belatedly, I have been reading Basil Marriott's note in *The Builder* of April 10 about the exhibition 'The Face of the Firm' which I recently organised for the Design and Industries Association.

So many of the Press items about this exhibition have been merely quotations from the DIA's own Press statements that it is encouraging to read a view such as yours which is both appreciative and justifiably critical of the standard of one or two of the exhibits.

You may be interested to know that the exhibition attracted well over 2,000 visitors (apart from the considerable number of VIPs who had free tickets) and we feel that this is very encouraging for an exhibition dealing with a subject which should be of wide interest to industry but is of no great public interest. Thank you for *your* support.

ALEC DAVIS,
Spearhead Services Ltd.
47 Reeves-mews,
Grosvenor-square, W1.

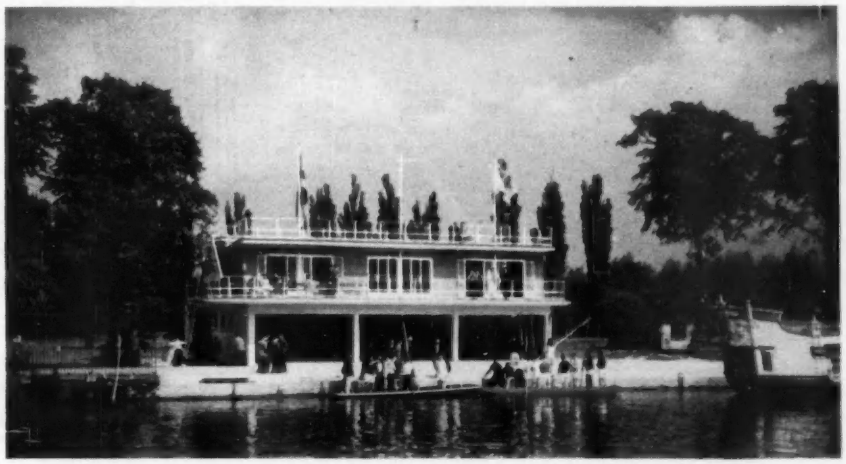
IoB Presentation to Prince Philip

THE PRESIDENT of the Institute, Mr. H. S. Oddie, FIOB, accompanied by the Vice-Presidents, Hon. Treasurer and Secretary, attended Buckingham Palace on May 12 when the scroll of Honorary Fellowship of the Institute of Builders was presented to His Royal Highness The Prince Philip, Duke of Edinburgh.

View from towpath

BOATHOUSE, OXFORD
for the Queen's, Lincoln and Oriel Colleges

Architect: HENRY G. GODDARD, MA, FRIBA
Assistant Architect: HELEN B. INGLEBY, ARIBA
Consulting Engineer: L. L. KENCHINGTON, BSc (Eng), AMICE
Quantity Surveyors: DAVIS, BELFIELD & EVEREST
General Contractor: HINKINS & FREWIN, Ltd.



View across the Isis

Boathouse, Oxford for the Queen's, Lincoln and Oriel Colleges

THIS Boathouse was designed to take the place of the three College Barges, now alas ! beyond repair. The barges have for a long time been a notable feature of the river scene along Christchurch Meadow : all who have been at any time connected with rowing at Oxford, and many others besides, must regret their gradual disappearance. The reason is, of course, an economic one. Barges are costly to build and to maintain : they do not provide accommodation for boats, the storage of which is a considerable drain on a club's resources : and for obvious reasons, sanitary facilities have to be strictly limited.

The major problem in designing a land-based replacement seemed to be to provide a building with some part of the lightness and gaiety of the barges, whilst giving the facilities which they cannot give. It was felt that a much lighter structure than the brick-built boathouses already in being would be more in keeping with the river tradition. The idea of a structure, both light in appearance and in physical weight, was however not only suggested by aesthetic considerations. The site is an island, bounded on the one hand by the Isis, on the others by two arms of the Cherwell. The possibility of putting a temporary bridge over one of these arms was considered but abandoned on the score of cost. Instead, materials were brought to the nearest point to which road access was available, and ferried over by barge from a temporary staging. Clearly the cost of this method depended very largely on the weight of the materials to be handled. By keeping this to a minimum, handling costs were kept down : in fact, the overall cost was only some three per cent more than it would have been had the site had a direct hard road access. Excellent planning and site organisation on the part of the general contractor contributed greatly to this result.

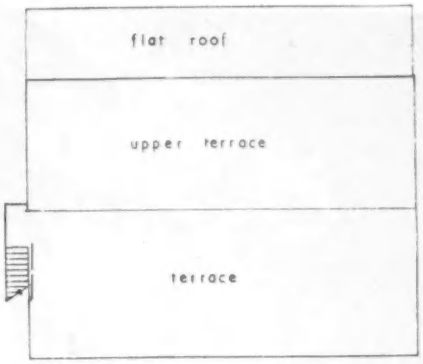
Beyond this, the main outlines of the building are dictated by its use. The main dimensions, and the arrangement of the supports, are dependent on the length of the ' eights ' which are housed, and the spacing of the racks needed to carry them. The width also was determined by the need to provide three aisles, with racks on each side, and sufficient space between for handling. This space had to be kept to a minimum on account of site limitations. A further requirement was to give the best possible view of the river for the large number of spectators who gather to watch the racing in Eights Week. It was for this reason that a flat roof, on two levels, was adopted. The building is fortunately sited on a slight bend in the river, and there is a particularly fine view in either direction.

The site consists largely of made-up ground : a test boring suggested that piling would be the most economical foundation, and this method was adopted. The pipe caps are joined by reinforced concrete beams. The main structure is a normal steel frame. The stanchions are cased in concrete. The upper floor and the roofs are of wood joist construction, with boarding. The boathouse floor is of reinforced concrete. The walls are of ' Thermalite ' blocks, finished externally with ' Snowcem ' on the lower floor, and with cedar weatherboarding on the upper floor. Standard steel casements, hot dip galvanised, are used. The main doors are finished externally in mahogany-faced, waterproof plywood, varnished. The floor finish of the upper floor is coloured asphalt throughout. The roofs are covered with built-up bituminous roofing, finished with a sand and cement screed, divided into squares.

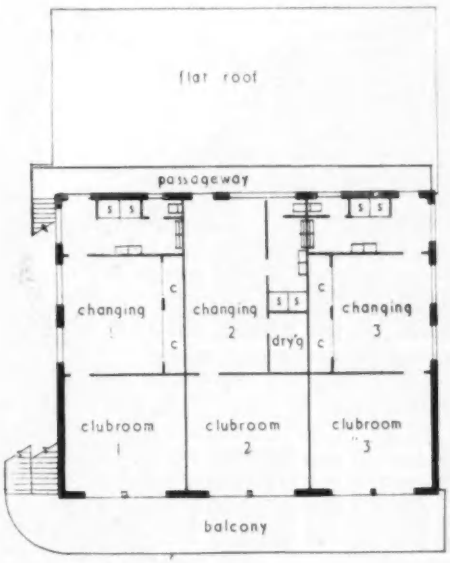
Sub-contractors and Suppliers :

Piling, Soil Mechanics, Ltd. ; *insulating blocks*, Thermalite, Ltd. ; *flat roofing*, William Briggs & Sons, Ltd. ; *metal windows*, Crittall Manufacturing Co., Ltd. ; *asphalt flooring*, Oxford Asphalte Co., Ltd. ; *electrical installation*, Southern Electricity Board (Oxford district) ; *sanitary fittings and door furniture*, G. R. Cooper, Ltd. ; *structural steelwork*, Joseph Parks & Son, Ltd. ; *and sliding door gear*, P.C. Henderson, Ltd.

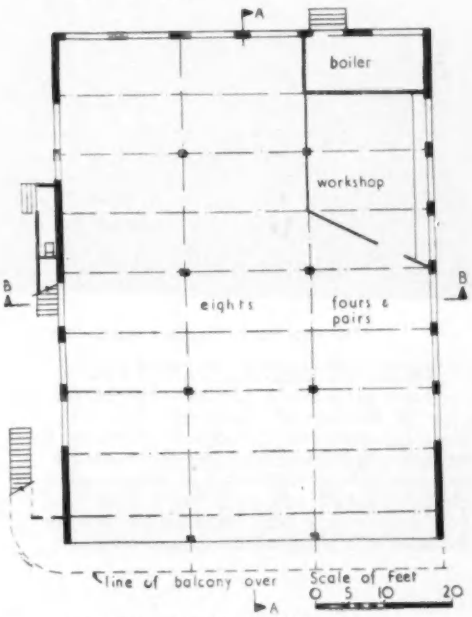
View from first floor balcony towards Folly Bridge



ROOF PLAN

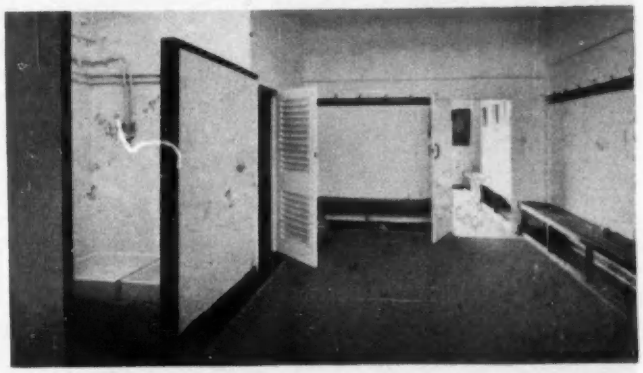


FIRST FLOOR PLAN

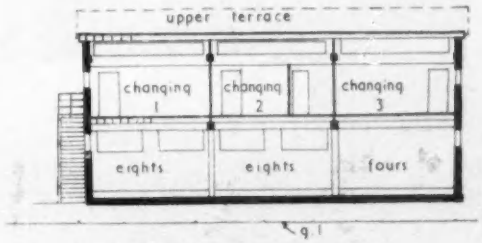


GROUND FLOOR PLAN

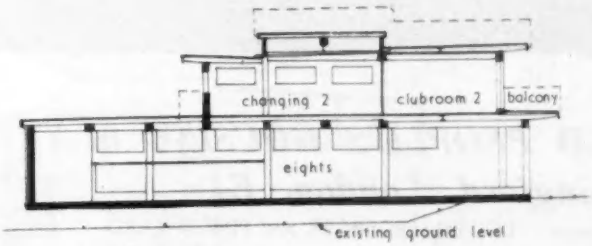
Racking arrangement for 'eights'



Changing room 2



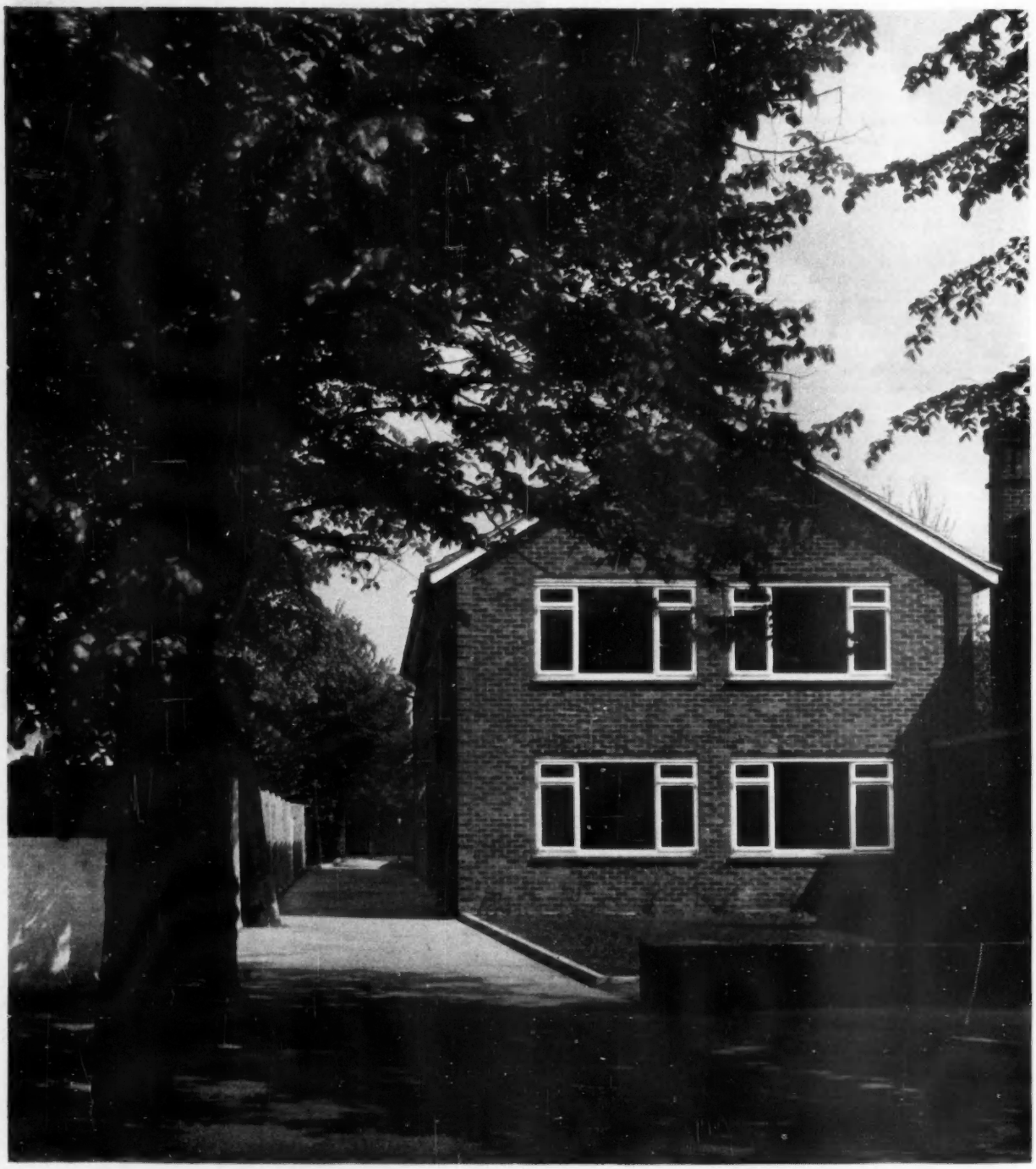
SECTION B-B



SECTION A-A

Boathouse, Oxford,

for the Queen's, Lincoln and Oriel Colleges



The flats from Chingford Mount-road

OLD PEOPLE'S HOUSING at Chingford, London, E4

Architects: BOOTH, LEDEBOER and PINCKHEARD

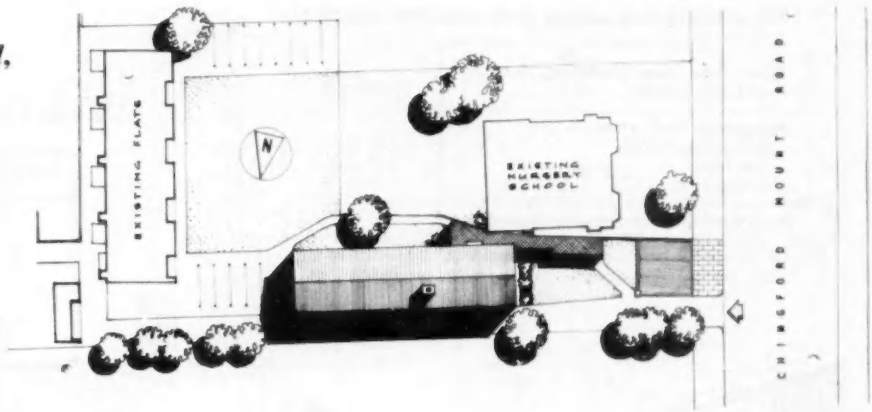
Quantity Surveyors: WAKEMAN, TROWER & Partners

General Contractors: DENNIS DEVELOPMENT Co.

THIS is a two-storey building containing twelve flatlets, to house eighteen old people as part of a larger scheme for housing for the Borough of Chingford.

The building is approached from Chingford Mount-road and is entered from under a covered way on the south side. From the entrance lobby a central spine corridor gives access to rooms on either side, and here interest and opportunity for colour have been provided by forming recesses off the corridor, leading to the wc's and bathrooms.

Old People's Housing, Chingford, London, E4



SITE PLAN
Scale : 1 in.=64 ft.

The architects were asked to provide a relatively high proportion of double bedroom units, the actual requirements being six double and six single units. Meeting these requirements on a long and narrow site presented problems, and the block had to be planned somewhat differently from the recommendations given in the Ministry of Housing and Local Government's handbook 'Flatlets for Old People.'

It was considered desirable that the bed-sitting rooms should be given the benefit of south and west aspects and, in order that these restricted frontages should not be taken up with service rooms, the kitchens for the double rooms were situated across the corridor on the north side. The kitchens for the single units, following the Ministry's recommendations, have been planned with their respective bed-sitting rooms. In this way only one kitchen on each floor is on the south side.

An easy going staircase serves the first floor, which is planned identically. The staircase has a fire-resisting glazed screen at ground floor level to meet the local requirements.

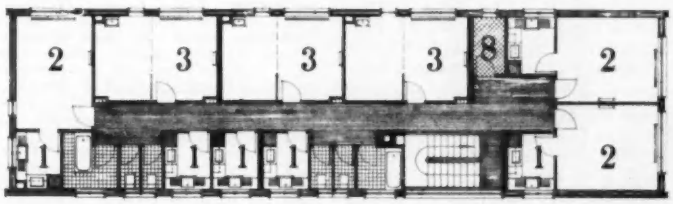
Each floor has four wc's and two bathrooms, and in two of the four bathrooms a free-standing peninsular bath has been provided in case some of the old people require assistance.

The double bed-sitting rooms have a fitted overhead track to enable the bedroom recess to be curtained off from the living-dining area. The bed recesses each have a separate window for additional natural ventilation, and each recess is equipped with its own hand basin. A small room on the first floor provides storage for trunks.

The building is centrally heated throughout by hot water radiators. The system is supplied by an oil-fired boiler situated in a semi-basement beneath the staircase, and the oil storage tank is housed in a single-storey unit linked by the covered way at the front of the building. This is to facilitate easy oil delivery, and the fuel is piped by an underground line to the boiler room. A steady background heat of 60 degrees F. is maintained in all rooms and corridors. Each living room has a built-in 2 kilowatt electric fire for additional 'topping up'.

No resident warden accommodation was required for this scheme, as the person responsible for cleaning and attendance on the heating unit lives in an adjoining block of flats. External walls are of 11 in. cavity construction; brick facings with an internal 4 in. breeze block lining.

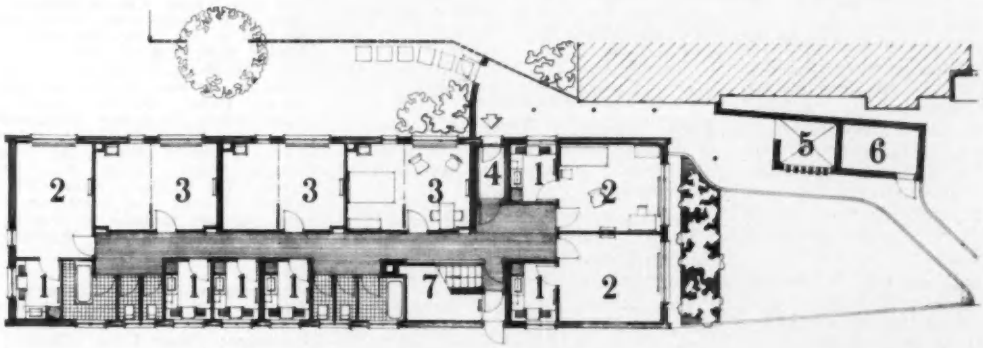
There is a concrete ground floor, timber first floor (except bathrooms and lavatories, which have tiled floors on reinforced concrete slabs), a reinforced concrete staircase, timber roof with concrete tiles and timber casements.



GROUND AND FIRST FLOOR PLANS

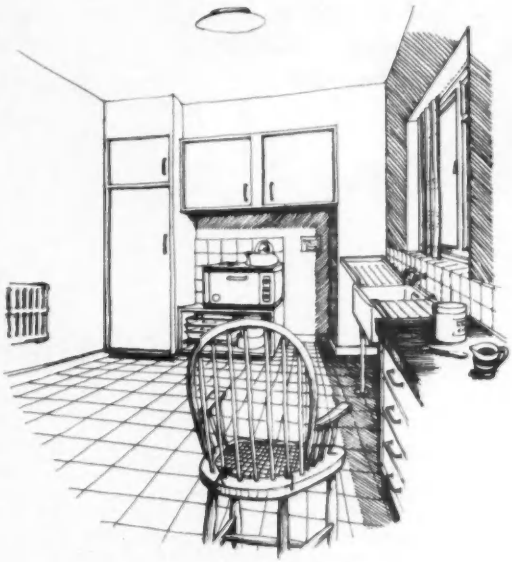
Key : 1 Kitchen 2 Single-bed sitting room 3 Double-bed sitting room 4 Entrance lobby 5 Dustbin store 6 Oil fuel store 7 Boiler room 8 Trunk store

Scale : 1 in.=20 ft.



The following is an analysis of the completed scheme :—

Total floor area (including dustbins and fuel stores)	3,900 sq. ft.
Percentage floor areas :—	
Bed-sitting rooms	52.82 sq. ft.
Kitchens	13.85 sq. ft.
Circulation...	16.64 sq. ft.
Estimated cost of building (excluding site works and fees)	£11,850 0 0
Cost per unit (18 units)...	£658 7 0



Sketches showing typical interiors in the flats
left : A double-bed sitting room. above : A kitchen

Old People's Housing at Chingford, London, E4

Sub-contractors and Suppliers:

Heating, Benham & Sons, Ltd.; *facing bricks*, R. Passmore & Co., Ltd.; *'Accotile' floor*, Neuchatel Asphalte (Contracting), Ltd.; *electrical and television aerial installation*, H. & M. Electrical (London), Ltd.; *planting*, E. Doe & Sons (Contracts), Ltd.

HISTORIC BUILDINGS

Council's Annual Report

IN their 1958 annual report, the Historic Buildings Council for England say that recommendations for grants will have to be considerably reduced for the next few years. During 1958 a greater number of grants towards the cost of major repairs to the great country houses were made; this, together with the decline in the ability of owners to contribute and the increase in costs has resulted in a progressive increase in the Government's Share. The total recommendations for grants during 1958 was £548,597. The report is published by HMSO, price 1s. 3d.

Lack of funds has resulted in a raising of the standards required of a building before a grant is offered. The application of a more rigorous test to buildings on the 'borderline,' particularly to the large type of country mansion, which is not of the first importance architecturally, and which is frequently expensive to repair and maintain. A building of this nature is, in the main, a 'white elephant,' since it is mostly unsuitable for occupation in present-day conditions.

The council explained that in view of the time lag between the acceptance of a grant and its payment, recommendations should not exceed the probable provision for expenditure two or three years hence.

The council has continued its policy of not providing grants for unoccupied houses, because of the obvious danger that they might quickly deteriorate again. The Committee on Uses for Historic Buildings will continue to guide the work of the Historic Buildings Bureau in finding new uses for unoccupied buildings, especially those of outstanding interest. The council hope that owners of these buildings will not be deterred from applying for help at the earliest possible stage.

In their report the Historic Buildings Council for Wales said that the total value of aid accepted during 1958 was £36,675. Although this amount was higher than the figure for 1957, the number of applications were smaller. The report is published by HMSO, price 6d.

Wales is not rich in historic buildings and it seems that the work of the council has passed its peak.

Further List of Grants

THE Minister of Works has announced another 39 grants towards the preservation of historic buildings in England, Wales and Scotland.

These grants are authorised under an Act of Parliament of 1953 which set up Historic Buildings Councils in the three countries to make recommendations to the Minister.

This quarter's list shows a reasonable balance between town and country properties. There are several famous old family seats, such as Vanbrugh's Yorkshire masterpiece, Castle Howard, and the West Country castles of Berkeley, Bickleigh and Powderham. There are also ancient civic buildings such as Bridgnorth Town Hall, Salop, and notable town houses now used as borough museums at Ludlow and Rochester.

The new list of buildings is as follows:

ENGLAND

Harnham Hall, Belsay, Northumberland; Castle Howard, Halton, Yorks.; Rudding Park, Harrogate, Yorks.; Sir John Moore Grammar School, Appleby Magna, Leics.; Paine's Cottages, Oundle, Northants.; Fishermen's Hospital, Great Yarmouth, Norfolk; North and South Wings of Hampton Court, King's Lynn, Norfolk Old Bell and Steelyard Inn, New-street, Woodbridge, Suffolk; Otterden Place, Eastling, nr. Faversham, Kent; Barming Place, Maidstone, Kent; Eastgate House, Rochester, Kent; Knole, Sevenoaks, Kent; Swakeleys, Ickenham, Middx.; Sackville College (Almshouses), East Grinstead, Sussex; Old Flushing Inn, Market-street, Rye, Sussex; Creech Grange, Wareham, Dorset; 2 & 3 Trinity-street, Weymouth, Dorset; Furniture at The Vyne, Basingstoke, Hants.; Falkland Hall, Burford, Oxfordshire; Ditchley Park, Spelsbury, Oxfordshire; Powderham Castle, St. Thomas, Deven.; Bickleigh Castle, Tiverton, Devon.; Berkeley Castle, Gloucs.; Matson House, Gloucester; Parliament House, Gloucester; Painswick House, Gloucs.; Sir James Thynne's Almshouses, Longbridge Deverill, Wilts.; Town Hall, Bridgnorth, Shrops.; The Reader's House, Church-walk, Ludlow, Shrops.; The Gatehouse, Old Hall Farm, Mavesyn Ridware, nr. Rugeley, Staffs.; Lord Leycester's Hospital, Warwick; Lower Huxley Hall, Huxley, Cheshire.

WALES

Buckingham House, Glamorgan Street, Brecon; 4 Lion-street, Brecon; Newton Farm, nr. Brecon; The Great House, Llantwit Major, Glamorgan; Plasau Duon, Clatter, Caersws, Montgomeryshire.

SCOTLAND

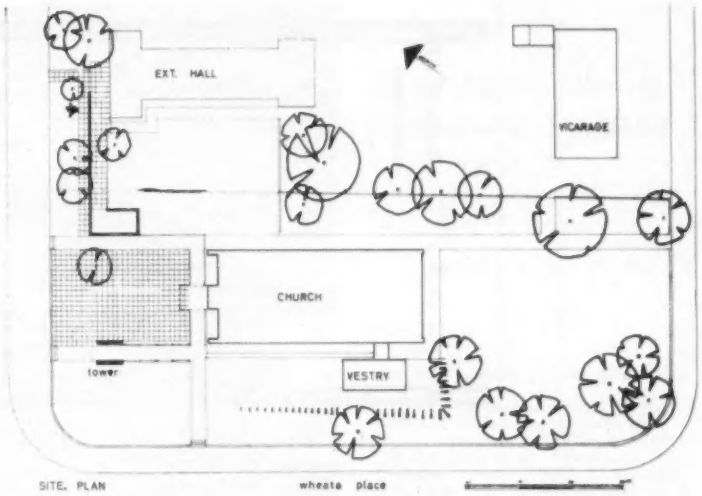
Lamb's House, Leith, Edinburgh; Town House, Auchtermuchty, Perthshire.

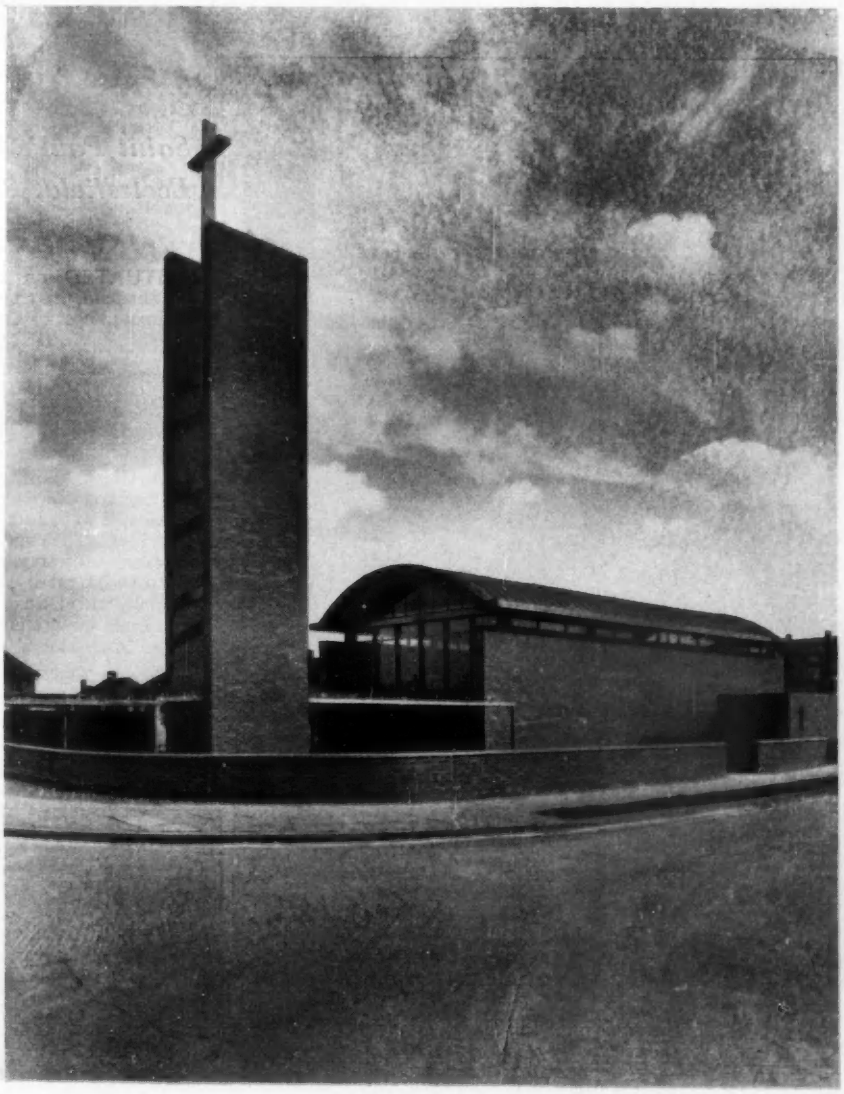
SAINT PAUL'S CHURCH
Ecclesfield, Sheffield

Architects :
BASIL SPENCE & Partners

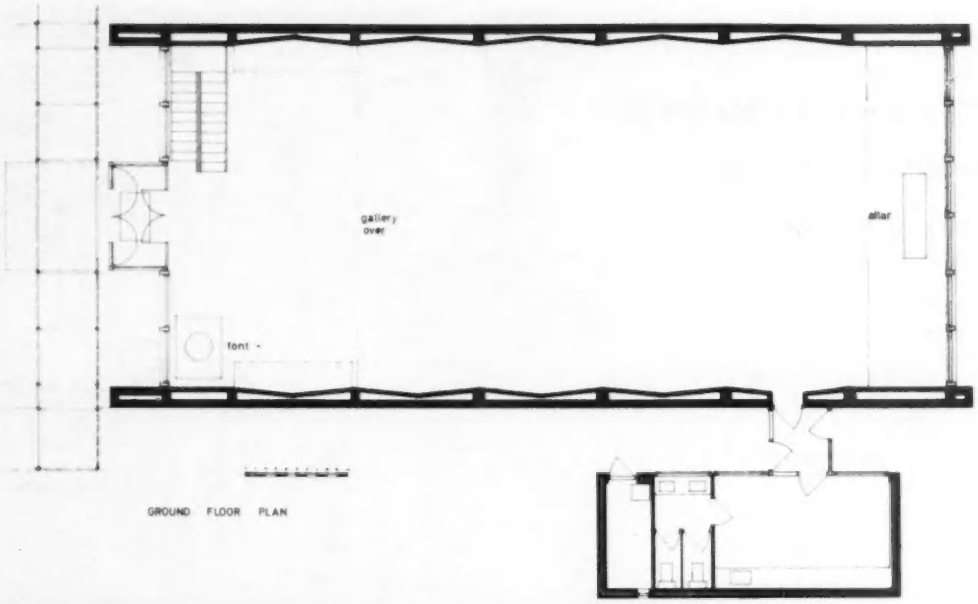
Quantity Surveyor :
B. M. KIMBER, FRICS

General Contractor :
CHARLES R. PRICE

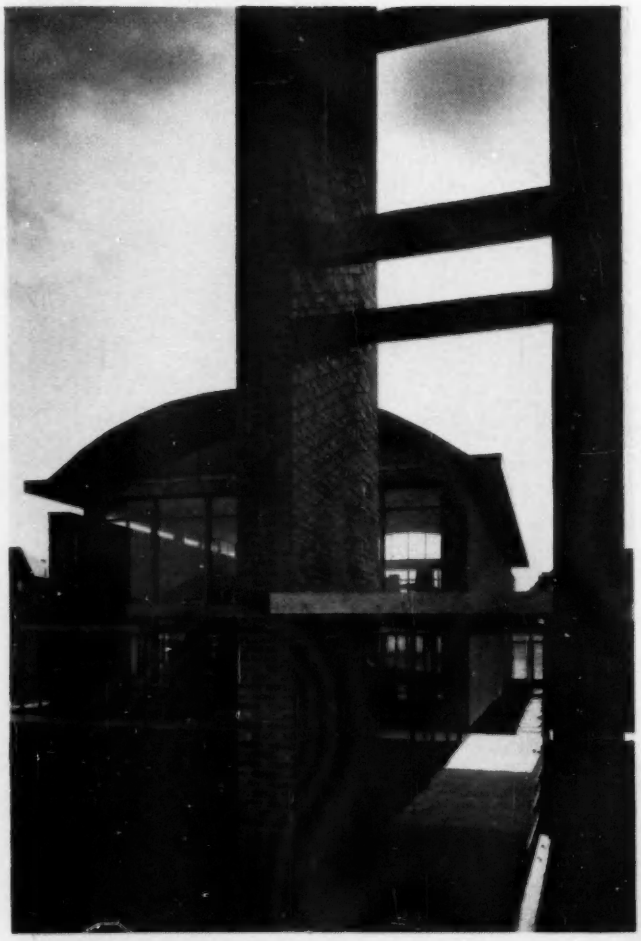




A general view from the west showing the free standing bell tower which is connected to the church by a covered way. The path which runs beneath the covered way passes through the bell tower



GROUND FLOOR PLAN



Saint Paul's Church, Ecclesfield, Sheffield

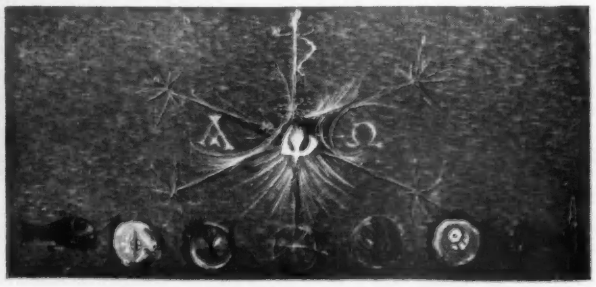
SITUATED on a hill overlooking the suburbs of Sheffield, this church is designed to seat 250 people at an estimated cost of £23,500.

It is conceived simply, with two side walls of brick, end walls of glass and a floating barrel-vaulted roof. A covered way connects a free-standing bell tower to the church and forms an entrance court. A canopy over the entrance passes through the glass screen and widens out to form the choir gallery in the nave.

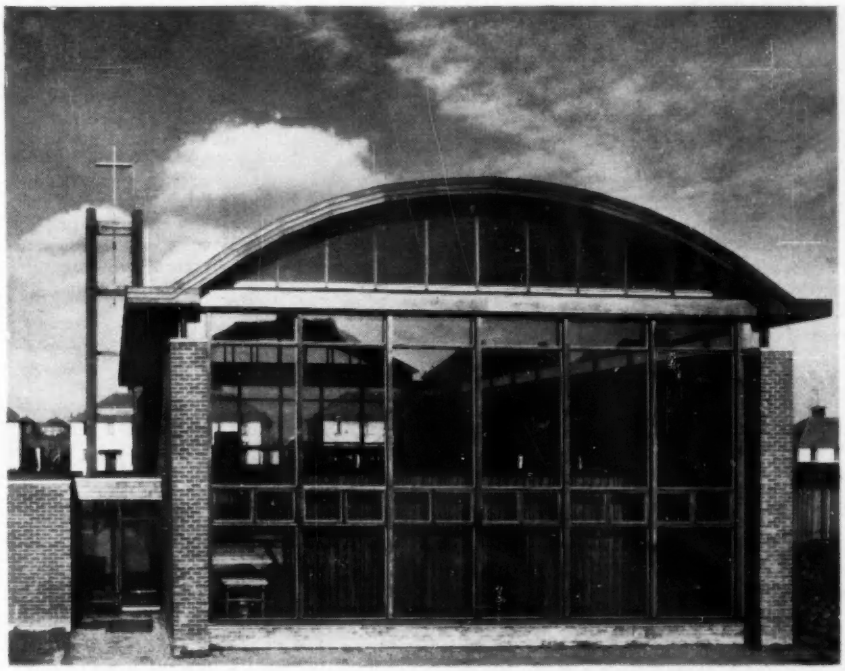
A simple construction has been achieved with two continuous deep strip foundations supporting the 24 in. thick side walls and a 4 in. site slab covered with screed and pvc tiles. The end walls and clerestory are double-glazed in cedar subframes and the roof consists of a lattice shell of scaffold tubes on the diaframe principle, exposed internally and clad externally with boards and copper. There are three bow strings to prevent spread and a horizontal wind brace at each gable.

All the joinery, furnishing and pews were designed by the architect and made by the general contractor.

The church took seven months to complete.



above : *A view through the bell tower showing the beginning of the covered way*
right : *A detail of the Altar frontal by Beryl Dene*



Saint Paul's Church, Ecclesfield, Sheffield

Sub-contractors and Suppliers:

Structural steelwork and lattice shell roof, Scaffolding (Great Britain), Ltd.; *copper roofing*, Builders Iron and Zincwork, Ltd.; *electrical installation*, Electra, Ltd.; *heating installation*, Newton Chambers & Co., Ltd.; *'Holloseal' glazing and metal windows*, Faulkner Greene & Co., Ltd.; *bell tower, cross, precast copings and font*, Kingsbury Concrete Co., Ltd.; *asbestos faced roof decking*, Stramit Boards, Ltd.; *Heather hand-made bricks*, National Brick Co.; *'Accotile' flooring*, Armstrong Cork Co., Ltd.; *paints*, British Paints, Ltd.

The east elevation showing the double glazed end wall framed in cedar and the timber screen behind the Altar. The small glazed lobby on the left connects the main church with the vestry

A view across the Altar showing the simple rails and lectern

A view from the gallery showing the exposed metal framework of the roof

CRAWLEY NEW TOWN

Sir Thomas Bennett's Progress Report

THE 'virtual completion' of the original task of the Crawley Development Corporation was reported by SIR THOMAS BENNETT, KBE, FRIBA, the chairman, when he addressed the annual meeting of the Corporation on April 18. Following are extracts from his remarks:

In 1947, the Crawley Development Corporation was appointed to develop a town then numbering 9,500 people to a town which would accommodate 50,000 people; the assessment of the population in March, 1959, is estimated to be 49,500. The original task of the Corporation is therefore virtually complete. It was estimated to take 15 years. With over 50,000 people in residence in 1960, it will have taken 13 years.

The town was planned in 1947, to achieve a number of objectives. It is possible now to decide whether these objectives were based on good planning and good judgment and whether they have been achieved.

The principle adopted was to accept the old Crawley town as a highly valuable link with tradition and an excellent basis for the development of the new town centre, to build the town around this basic construction. The Corporation feel that the acceptance of the importance of Crawley High-street and its shops, 'The George,' the open spaces and trees and greens, has been of the greatest possible value during the growth of the town and will be a feature of the town centre in future years. In many ways, incorporating an old town centre successfully requires more work and greater skill than ignoring it and building a separate centre.

The next principle was to build houses close to the town centre and to place the remaining neighbourhoods in a roughly radial position so that access from all of them involved travel over a short distance and was made easy by radial main roads or avenues. The farthest house from the town centre is approximately 1¾ miles. The plan arrangement has created a compact town.

Position of Industry.—The industrial area stretches across the northern part of the town and is visible from a number of points including the A.23 and other thoroughfares. It was once seriously considered impossible to develop land east of the railway because of floods, and the industrial area was suggested as an area to the east of the London/Brighton railway. There can be little doubt that the present industrial area is infinitely successful — a success which could not have been achieved east of the railway.

Above: First stage of Crawley Technical College, Town Centre. F. R. Steele, FRIBA, County Architect, West Sussex County Council, architect.

Below: Crown Building and Head Post Office, The Boulevard, Town Centre. Designed by the Architect's Division, Ministry of Works

Size of Neighbourhoods. — The neighbourhoods were restricted in area more than recommended by the principles then current. The approximate population at present in each neighbourhood is as follows: Southgate, 4,500; West Green (including Town Centre), 5,000; Northgate, 5,000; Ifield, 5,500; Three Bridges, 6,000; Pound Hill, 6,500; Langley Green, 8,000; Tilgate, 8,000; Gossops Green, 1,000

(at present under development).

These neighbourhoods have less than the 10,000 population recommended in 1947 but have proved large enough to have community life and small enough not to become confused with a suburb.

New plan for future building.—At this stage it is desirable to consider the future of the town. For this purpose, the Corporation arranged with the Ministry for Mr. Minoprio, author of the original Master Plan, to prepare a further plan which would indicate the possible future development of the unbuilt portions of the designated area. This plan was completed and sent to the West Sussex County Council for discussion in May, 1958.

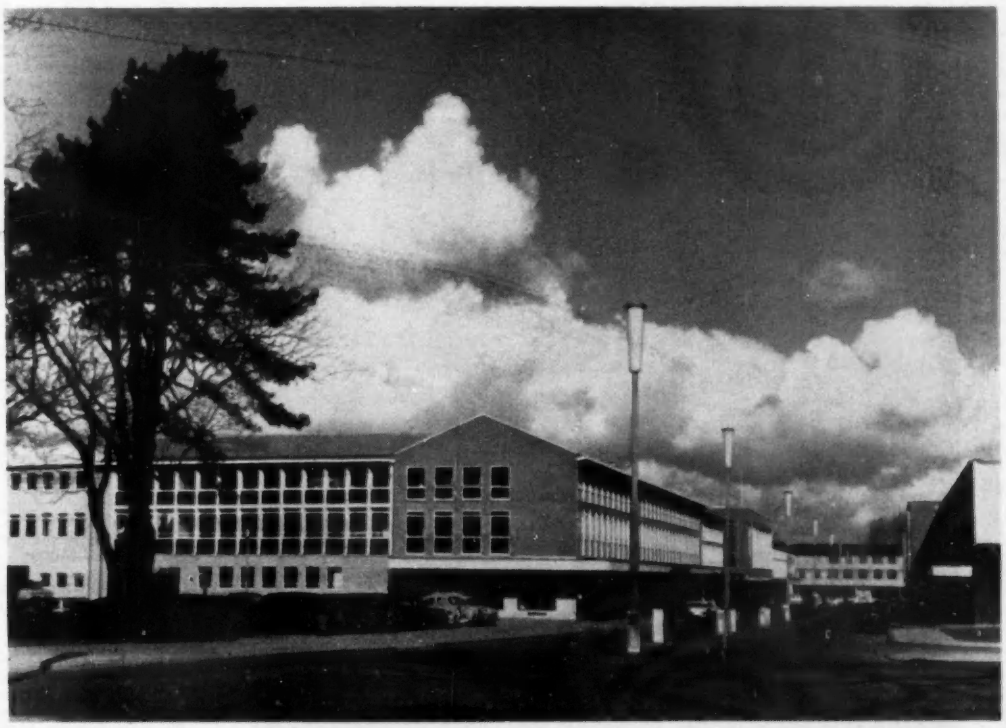
Figures were prepared which showed that the population might rise to 56,000 by the end of 1960 and reach 63,000 mainly by natural growth by 1970. The possible ultimate population is expected to be 70,000 by 1980.

The West Sussex County Council have not yet given their views on this development and are considering preparing a plan of their own. The Corporation feel that there is a very great urgency to have this plan under discussion, to decide on principles of development for the future, since it is their general experience of development that a gap of two years is unavoidable between the settlement of the outline plan and the occupation of the houses or buildings for which the plan provides.

It would appear undesirable to plan for more than a minimum of further immigration from the London area. If this decision be correct it will have a substantial bearing on the character and type of development which must provide for the ensuring growth of the population.

Factories in Production.—Crawley now has 71 factories in production, totalling 2,220,000 sq. ft. of floor space. Manufacture can be grouped under seven trade headings. Hitherto incoming industrialists have been selected on a schedule giving a high percentage of skilled male technical and administrative employment. One or two of the factories now being recruited employ primarily women and juvenile labour. The Corporation considers such factories necessary for the present stage of growth of the population. Of this production space approximately 1,630,000 sq. ft. is in 35 factories which have been built by the industrialists themselves on ground lease.

The factories cover 182 acres of land, a further 100 acres are developed ready for building, and a further 100 acres in reserve make 382 acres in all.



Above: The Broadway from Three Bridges-road showing South-Eastern Electricity Board's premises on the left. Designed by H. S. Howgrave-Graham, ARIBA, Chief Architect, Crawley Development Corporation

Below: Factory for Upjohn of England Ltd., Fleming Way, Industrial Area. Russell Diplock Associates, architects

ALUMINIUM IN BUILDING

Forthcoming ADA Symposium at the RIBA

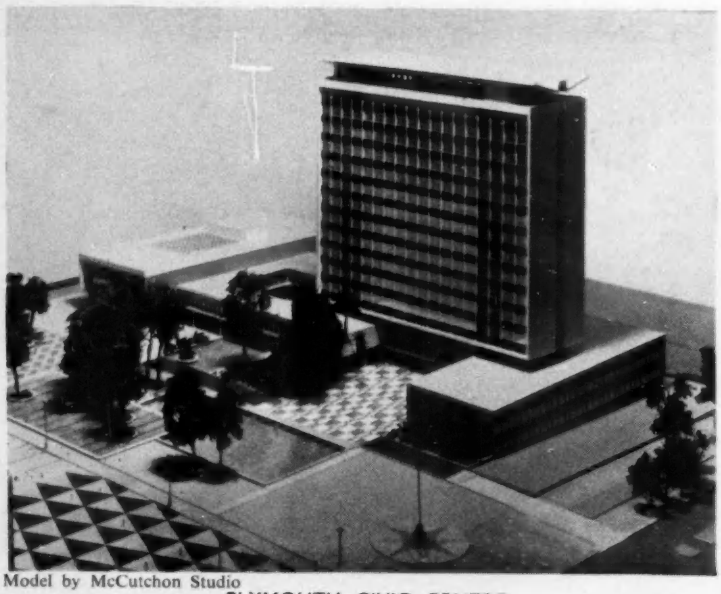
A SYMPOSIUM on Aluminium in Building has been arranged by the Aluminium Development Association for July 9 and 10. It will be held at the Royal Institute of British Architects, 66 Portland-place, W1, by courtesy of the President and Council of the Institute. In the course of three sessions some fourteen papers will be introduced, reporting in detail the advances made—some of them very recent and significant to future trends.

There will be three sessions for discussion: (I) Aluminium as a Building Material; (II) Aluminium Curtain Walling; and (III) Aluminium Building Applications.

The Symposium's Objects

The principal objects of the symposium are to provide a forum for the free exchange of views between architects and builders on the one hand, and the aluminium industry on the other; to receive suggestions and criticisms which will help to develop further new items by the aluminium industry and manufacturers, and to indicate future possibilities for extending the usefulness of aluminium in this important field of application.

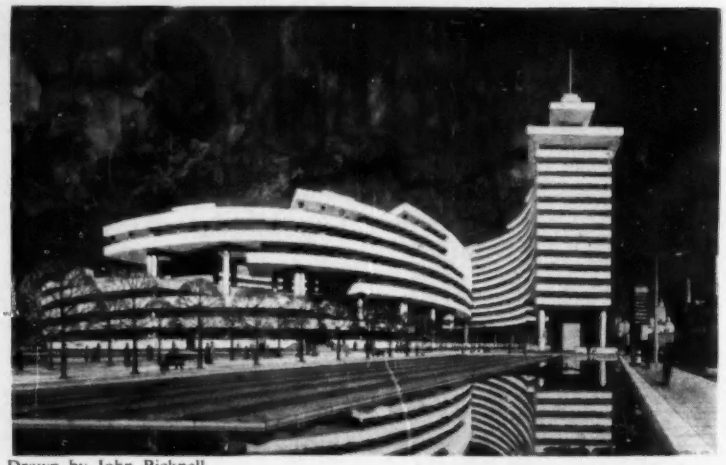
Requests for invitations to attend are open to architects, builders, contractors' engineers and others with qualification and experience in the building industries. Applications should be addressed to the Aluminium Development Association, 33 Grosvenor-street, London, W1.



Model by McCutchon Studio

PLYMOUTH CIVIC CENTRE

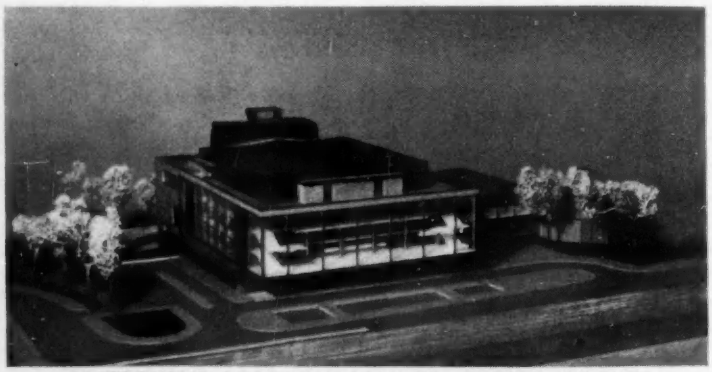
Jellicoe, Ballantyne and Coleridge in association with H. J. W. Stirling



Drawn by John Bicknell

PROJECT FOR CITY HALL, TORONTO

J. Bicknell and P. Hamilton, Architects



EASTBOURNE BOROUGH COUNCIL, ENTERTAINMENTS BUILDING: *Westwood, Sons & Partners, Architects*

Architecture at the RA Exhibition, 1959

COMING EVENTS

FRIDAY, MAY 22

SPUR.—'Better Towns for Better Living': Spur Exhibition. Open until June 6 at RIBA, 66 Portland-place. (Mondays to Fridays 10-7; Saturdays 10-5.)

SUNDAY, MAY 24

BBC (HOME SERVICE).—Talk: 'London Revisited.' By Sir Max Beebohm. 10 p.m. (First broadcast 25 years ago.)

MONDAY, MAY 25

FEDERATION OF PAINTING CONTRS.—Annual meeting. Dorchester Hotel, Park-la., W1. 2.15 p.m. (preceded by luncheon at 1 p.m.).

ECCLESIOLOGICAL SOCIETY.—'The Mosaics of Ravenna' (Part 2). By Mr. E. A. Remnant, FRIBA, FRICS. 2 Bloomsbury-sq., WC1. 6.15 p.m.

TOWN AND COUNTRY PLANNING ASSOCIATION (PLANNING FORUM).—'Australian Town Planning—Trends and Problems.' By Mr. A. J. Brown, ARIBA. 28 King-st., Covent Garden, WC2. 6.30 pm.

TUESDAY, MAY 26

INSTITUTION OF STRUCTURAL ENGINEERS.—Jubilee exhibition. Assembly Rooms, Great George-st., Edinburgh. Opening by Lord Provost. 12 noon. Open until May 28.

INSTITUTION OF CIVIL ENGINEERS.—'The Cape Town Wemmershoek Water Scheme.' By Mr. S. S. Morris. Great George-st., SW1. 5.30 p.m.

RIBA.—Presentation of Royal Gold Medal to Prof. Mies van der Rohe. 66 Portland-pl., W1. 6 p.m.

WEDNESDAY, MAY 27

TIMBER DEVELOPMENT ASSOCIATION.—25th annual meeting. Dorchester Hotel, London, W1. 11.30 a.m. (followed by luncheon).

UNIVERSITY OF LONDON.—Lecture: 'Excellence in English Architecture.' By Sir Albert Richardson, FRIBA. Senate House, University of London. 5.30 p.m.

ARCHITECTURAL ASSOCIATION.—General meeting, at which Mies van der Rohe will be present and slides will be shown of his work. 8 p.m. (preceded by dinner at 7 p.m.). 34-36 Bedford-sq., WC1.

THURSDAY, MAY 28

CHARTERED SOCIETY OF PHYSIOTHERAPY.—The Design of Physiotherapy Departments.' By Mr. A. Gray, FRIBA, and Miss J. McMain, MCSP. Olympia, London, W14. 5 p.m.

ARCHITECTURE CLUB.—Dinner in honour of Mies van der Rohe. Fishmongers Hall, London Bridge, EC4. 7.30 p.m.

SOCIETY OF CHEMICAL INDUSTRY.—Visit to Building Research Station, Garston, nr. Watford, Herts. 10.45 a.m.

SATURDAY, MAY 30

LONDON ASSOCIATION OF MASTER STONEMASONS.—Annual practical examination of London Apprentices in Stonemasonry. South Western Stone Co., Ltd.'s Works. 2.30 p.m.

NORTH WESTERN EDUCATIONAL ASSOCIATION FOR THE BUILDING INDUSTRY.—Visit to Manchester College of Building, Hardman-st., Manchester 3. 11.30 a.m.

INCORPORATED ASSOCIATION OF ARCHITECTS AND SURVEYORS (Thames Chapter).—Conducted tour of Oxford Colleges. Carfax Tower, Oxford. 3 p.m.

A HUNDRED YEARS AGO

From The Builder *of May 21, 1859*

GOOD COOKERY A SOCIAL WANT.—The waste caused by bad cooking amongst not only the labouring classes of the population, but also those of a better condition, is enormous. In thousands of instances no attempt is made to prepare variety of food, and yet we have medical authority for the fact that, if attention were paid to this the doctor would be less needed than is the case at present. In thousands of instances in the metropolis the Sunday dinner consists of a baked joint, and this is in a great measure necessary in consequence of the improper construction of the fire-places of the dwelling-rooms for the purpose of cooking.

News of the Week

Mies Van der Rohe at the AA

MIES VAN DER ROHE will be present at the general meeting dinner to be held at the Architectural Association on May 27, when slides will be shown of his work. In view of the large number of members and students likely to apply for tickets the hon. secretary has decided that on this occasion it will not be possible for members to bring guests.

ABS Mid-Summer Ball

THERE has been a brisk demand for tickets for the Architects' Benevolent Society Mid-Summer Ball which is being held at the Royal Institute of British Architects on June 19. Those who wish to attend are urged by the Society to apply for tickets without delay as the number available is much more limited than for the ABS Annual Winter Ball at the Grosvenor.

Dancing will be to the Howard Aynstey Band and the Temperance Seven and tickets are £1 5s. (including buffet supper) from the Hon. Organising Secretary, A. Wolfe, ABS, 66 Portland-place, W1.

Architectural Courses

THE Institute of Advanced Architectural Studies is to hold a number of summer courses during July and August.

These are as follows:—Summer School for Architectural Students (July 25-August 8); Post Graduate Seminary on Architectural Design (July 25-August 8); Post Graduate Seminar on Town Planning Design (July 25-August 15); Course on Landscape Design (July 25-August 15); Course on Architectural Design (July 25-August 22); Summer school on 'Planning the Modern House and Garden' (August 22-29), and a Summer school on 'A History of Railways and Canal Buildings.'

All of these courses will be held at St. John's College Hostel, Heworth Green, York. Further details from the Institute at Micklegate, York.

'Dull Uniformity' in Design

A BREAK from architectural standards of 'dull uniformity' in design was asked for by Dr. J. M. Whitaker, Vice-Chancellor of Sheffield University, when he opened the jubilee exhibition of the Institution of Structural Engineers, Yorkshire branch, in Sheffield University's Firth Hall recently.

He said of models of notable structural engineering work of the past few years, 'Some of them are exciting in design, making full use of new materials and techniques. Others, however, fit into a uniform pattern we are all too familiar with.

'Some of us are concerned, watching building going on all around us, that there is still so much dull uniformity in the character of some residential buildings and factories. There is a mean between the most novel of the new architectural shapes and those agreed on as standard for every building where we are to work or live.'

'Thought I might as well work in the office as on the road!'

Experiments with Street Furniture

YARMOUTH, Isle of Wight, has been chosen by the county planning committee as the venue for an experiment suggested by the Minister of Housing and Local Government. The Minister has suggested that planning authorities might conduct experiments to see whether improvements could be effected in the design and lay-out of bus shelters, advertisements, public notices, traffic signs, street lighting posts, electrical and Post Office equipment sited above ground.

Birmingham University Extensions

Now in his 80th year, Mr. Holland W. Hobbiss, FRIBA, who designed the original Students' Union at Birmingham University in 1930, has also designed the £160,000 extensions in connection with which the first sod was cut with a silver spade on May 1 by Professor Humphrey Humphreys. Mr. Hobbiss is retiring shortly.

SPAB Lectures

THE Society for the Protection of Ancient Buildings are holding a series of illustrated lectures at the Victoria and Albert Museum, Kensington, under the title, 'English Country Houses by their Owners, and Versailles.' The following lectures, admission to which is free, have now been announced: May 28 'Versailles' by the Rev. I. Dunlop; June 4: 'Drayton House' by Col. N. Stopford-Sackville; June 11: 'Kedleston' by Lord Scarsdale.

These lectures will commence at 6.15 p.m. Tickets from the Secretary, SPAB, 55 Great Ormond-street, WC1.

New Amenity Society

FOLLOWING SIMILAR moves by its close neighbours, Epsom has now formed its own amenity society, determined to fight what is described as 'the rash of dreary development which it is felt threatens to engulf the town.'

At a meeting held recently the members heard their chairman, Mr. G. F. Aronson, describe the events which led to the forming of the society.

'We realise that we cannot expect that Epsom will remain forever as it is,' he said, 'but we consider that our council are not making sufficient use of their planning powers to control the type of development that is taking place.'

A member of the town planning committee, Coun. Robert Nott, addressed the meeting. He said he was glad to see so much interest being taken in planning matters, but he did not think the council's record was as black as it was painted.

Visit to Oxford Colleges

MEMBERS and friends of the Thames Chapter, IAAS, will assemble at Carfax Tower, Oxford, at 3 p.m. on May 30, for a conducted tour of Oxford University Colleges, which is expected to last about two hours. Later, in the evening, those who wish to stay will visit the New Theatre, Oxford, to see 'All in the Family.' With members of the Chapter on this occasion will be the president of the Association, Mr. R. E. J. Harding and Mrs. Harding, and Mr. T. W. Porter, chairman of the Southern Counties Branch of the Association.

£140,000 Offer to University

THE University of Birmingham has been offered a gift under covenants of between £19,000 and £20,000 a year for seven years to enlarge and develop the graduate school of highway engineering and to establish a chair in the joint subjects. The offer has been made by a number of interests comprising the motor industry, certain oil companies, a group of engineering and surfacing contractors, the Automobile Association Club, Lloyd's and the British Insurance Association. The donors expect the University to assume financial responsibility for the chair and the school at the end of seven years.

Part of the gift is intended for the provision of bursaries for graduates taking courses in the school.

IoB Examination Diplomas

AT a meeting of the IOB Licentiate Discussion Club held at the Institute of Builders on April 22, the president, Mr. H. S. Oddie, FIOB, presented Licentiate and Associate Diplomas to those successful in the 1958 examinations. Mr. Oddie welcomed new members to the Institute and to the Club and said he hoped they would become active members of both.

Mr. Oddie paid tribute to the help he had received from the Club in the eventful years that he had been president and specially to the chairman of the Club, Mr. B. E. Lucas, AIOB, and his work in connection with the reorganisation of the membership structure of the Institute.

Memorial Plaque to Master Builder

ON TUESDAY, May 12, a plaque was erected at No. 3, Lyall-street, SW1, to commemorate the residence there of Thomas Cubitt.

PROFESSIONAL ANNOUNCEMENTS

MR. M. E. GOOCH, MA, AADip, ARIBA, has joined MRS. S. M. GOOCH, ARIBA, in practice under the style of Michael and Sheila Gooch at Gurney Court, Magdalen-st., Norwich (tel.: 27504).

MR. V. J. MENDOZA, ARICS, has now commenced in practice on his own account as a chartered quantity surveyor at 158 Gloucester-pl., Dorset-sq., London, NW1 (tel.: Paddington 4527) at which address he will be pleased to receive trade literature.

THE CLIENT'S PLACE IN BUILDING

Two Talks to Scottish Rotary Clubs

IN talks which he gave to the Rotary Clubs of Glasgow and Edinburgh last week, MR. IAN M. LESLIE, OBE, Editor of *The Builder*, stressed the part which the building owner could play in carrying through a successful building contract. 'Do remember,' he said, 'in any building operation you may be concerned with, that you are part of the building team; do trust your architect; give him a clear brief on what is wanted and refrain from making radical changes after the working drawings are completed; don't expect to get more for your money than a fair return; and give the builder reasonable time to organise the contract. If you can follow this advice and also remember that it is the final cost of a building that matters, not the tender price, you will be making your own very great contribution to the efficiency of building.'

In his talk on 'Building in the Next Ten Years,' given to the Glasgow Club on May 12, Mr. Leslie suggested that it was the small or medium-size builder who was in danger in the immediate future. 'He mostly depends for his work on contract building where the job usually goes to the lowest tenderer irrespective of ability or merit; this means he seldom makes enough profit to keep himself up to date with plant and equipment. Yet this kind of builder is indeed the backbone of the industry and somehow or other he must be helped in his fight for survival.' He could not do the job by himself for the contract builder was efficient only in so far as the other partners in the building team were efficient.

Builders, however, should try to change public attitude to their craft and secure a change in the open tendering system to one or other of well-tried alternatives, most of which depended on the builder winning something akin to professional status. Some form of restriction of entry by unqualified firms into the contract field must surely come, the speaker added.

Changes in Next Decade

Changes which he expected to see come about in the next decade (said Mr. Leslie) included:

(1) A tendency towards more large and well-equipped firms and possibly a development of the 'package' system, though there were such weaknesses in that system that he did not think it would take a permanent place in the industry;

(2) Fewer but larger and certainly more efficient firms of medium-sized builders; fewer but more practically trained architects; and some diminution of the number of operatives engaged in building, but those operatives having a working knowledge of several allied crafts, producing more by the use of mechanised plant and, as a result, being paid a higher rate.

(3) A national building code in England and Wales as well as in Scotland.

(4) Developments in the direction of selective tendering so that clients as well as professional advisers should benefit by the builder's advice at planning stage.

(5) An increase in building wages and in the sum total of professional fees accompanied by an overall drop in the cost of building. We had not yet begun to tap the benefits of partnership-building or of applied building research.

'The industry,' concluded Mr. Leslie, 'is now awaking from a Rip Van Winkle sleep in which it has very largely allowed events to overtake it, and is vigorously tuning itself to meet new demands.'

A vote of thanks was proposed by MR. W. EMSLIE. The President, MR. ALLAN STEPHEN (Director of *The Glasgow Herald*) was in the chair.

'Architecture in the Next Decade'

'IT IS TIME we forgot Shaw's jibe "Artists are born, not paid" and realised that good design is more than mere aesthetics; it is a good investment,' MR. LESLIE told the Edinburgh Rotary Club on May 14. There were, he said, pockets of resistance still in Scotland where the value of using the knowledge of the highly trained designer in preserving and developing the unique character of Scotland's towns and landscape was not recognised, and he would ask Edinburgh Rotarians to bring their influence to bear wherever they could.

Architects, said the speaker, had had a difficult time since the war when enormous demands had been made on them for buildings of all kinds, and at a time when new and substituting techniques were flooding on the market and there was a largely unskilled labour force to carry work out. 'Yet the architect cannot be altogether excused,' Mr. Leslie said. 'The profession as a whole has been slow to adapt itself to new trends, and slower still to revise its scheme of architectural training of students, now for the most part based on full-time study in which links with the practical side of building are all too few.' Another omission was any overall provision for post-graduate study and research, which was highly necessary if an architectural aesthetic based on sound building was to develop.

Nevertheless the architectural profession was rising in importance, and the contribution it could make to the community was being more and more recognised. Architects, for instance, were increasingly being brought into the biggest industrial schemes at the beginning, two examples being the great Kincardine power station, and the ICI storage plant at Leith; the appointment of an advisory panel for Princes-street was also encouraging: 'Others besides the canine population of Edinburgh are now taking an interest in your lamp-posts,' commented the speaker.

'Six things,' said Mr. Leslie, 'which I hope to see in Scotland in the next ten years are:

'(1) More factory work done by architects. Is there not a big field in the rapidly developing Grangemouth?

'(2) Full recognition of the architect in the conception of Power Stations of all kinds, including hydro-electric schemes in the Highlands. The old idea prevalent in the 'twenties of architects adding bits of ornament is laughed at by the present generation of architects. The architect should be allowed to help in the orderly and functional arrangement of the plant and buildings.

'(3) More architects should be used by speculative house builders. The Corporation housing scheme at Inch in Edinburgh is an example of what the architect can do, not only in the design of individual houses and the intelligent use of colour, but, supremely, in the layout of the site to make the fullest use of contours.

'(4) Progressive ideas in University architecture. There is much interesting work already started at Aberdeen, St. Andrew's and in Edinburgh. Universities ought to be forward-looking clients, and I believe that Edinburgh fills that role. I think it unlikely that the University will feel it necessary to send, as Oxford has done, for a Danish architect.

'(5) Conservation of the world-famous character and charm of the Georgian New Town of Edinburgh. There are few cities in Europe that would not seize the chance to preserve in every detail this immense tourist attraction—to say nothing of its attraction for the inhabitants and potential inhabitants from the south of England.

'(6) A great era in the rebuilding of Glasgow. The scale of Glasgow's required re-development is gigantic—as I have recently seen—and there seem to me to be unlimited opportunities for architects there.'

The President of the Club, Mr. James Mackenzie, was in the chair. A vote of thanks was proposed by Mr. Arthur Thompson.

CRICKET

The Vitruvians v. NFBTE

THE NATIONAL PRESIDENT, Mr. T. V. Prosser, has selected the following team to represent the Federation in its annual cricket match against the Vitruvians (the trade and technical Press) on June 4, at the Richmond Cricket Club's ground (11.30 a.m.):

J. A. Bird (Liverpool Federation) (*captain*); V. R. Blake (Eastern); C. F. Kidman (Eastern); V. Leader (Southern Counties); T. Longman (Southern Counties); R. T. Nickless (Southern Counties); M. Ruffell (Southern Counties); J. Sellers (Yorkshire); S. G. Shepherd (Liverpool); R. Triggs (LMBA); and F. Vidler (LMBA).

12th man: T. Martin Hart (LMBA).

The Vitruvians' XI is:

R. C. Hirst; J. R. Gardiner; A. Goater; R. D. Mudie (*Architects' Journal*); T. Patrick; A. J. Drew; R. Dowson (*The Builder*); J. A. Young; I. M. Leslie (*The Builder*) (*captain*); A. Barnett (*Contract Journal*); and W. A. K. Faldo (*Official Architecture and Planning*).

12 man: A. Watts (*Illustrated Carpenter and Builder*).

Umpires: P. J. Flitton (NFBTE) and L. McCarthy (*Contract Journal*).

Scorers: Miss Mavis Fishburn and C. Moisey (NFBTE) and R. Binfield (*Contract Journal*).

RIBA Beat Vitruvians

VITRUVIANS XI lost to the RIBA by 46 runs in the annual match played at Boreham Wood on May 12. The architects, batting first, were never in trouble and in two hours made 181 for 4. A fine innings

of 82 not out by Beeston and 50 by Aldis were the highlights of the afternoon.

The technical Press started well and Aitchison and Hirst put on 64 before the first wicket fell. After this there was little resistance to good bowling by Townrow and Robinson, apart from a spirited 29 by Jack Young. Eyre, who had come in at number 3 made a valuable 20 and was undefeated when Robinson took the last wicket with only five minutes in hand.

RIBA

J. G. Batty, b Dowson	8
A. E. J. Morris, lbw, b Hirst	7
W. E. Beeston, not out	82
C. E. Townrow, b Hirst	11
P. Aldis, ct wkt, b Aitchison	50
D. L. Robinson, not out	18
H. Francis, C. A. R. Norton, M. Firrell, C. Leighton, D. A. Stevens, M. E. Pache	Did not bat.
Extras	5
Total (for 4 wkts)	181

VITRUVIANS

J. Aitchison, c Robinson, b Townrow	33
R. C. Hirst, c Morris, b Robinson	30
C. Eyre, not out	20
T. Pattrick, c Farrell, b Robinson	4
C. Frend, c Norton, b Townrow	0
R. Dowson, b Robinson	0
R. Mudie, c Batty, b Robinson	0
J. Young, c Batty, b Townrow	29
F. H. C. Tatham, b Batty	2
R. Binfield, b Batty	0
W. A. K. Faldo, c Townrow, b Robinson	8
A. Barnett (did not bat)	
Extras	9
Total	135

Vitruvians' Bowling

Dowson	9	1	22	1
Hirst	13	3	32	2
Young	11	—	69	—
Eyre	2	—	16	—
Barnet	2	—	13	—
Aitchison	5	1	24	1

RIBA's Bowling

Francis	4	0	24	0
Robinson	15.3	3	33	5
Stevens	3	0	25	0
Townrow	7	2	26	3
Batty	3	0	9	2
Morris	5	1	9	0

LMBA Lose to BID

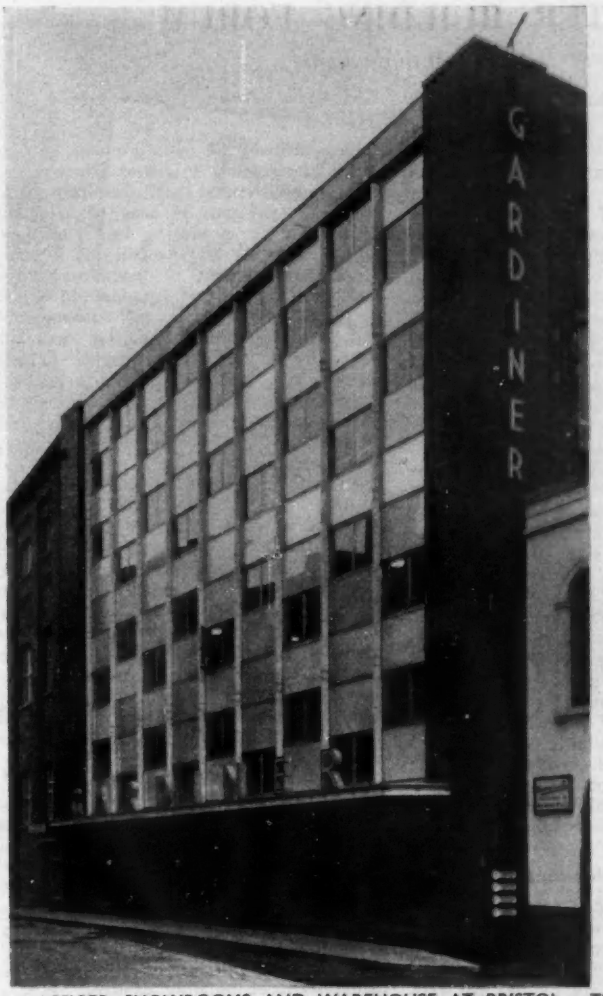
PLAYING for the first time against the BID, the LMBA won the toss and batted first. They lost their first wicket at 23, and then went on to lose the next 5 wickets for a further 23. A stand by R. W. Triggs and A. J. Burns took the score to 73 before a further collapse occurred and the LMBA were all out for 103, P. Fisher taking 5 wickets for 14.

BID obtained the required runs for the loss of 3 wickets, J. Haynes 44, P. J. Rogers 47 not out—and so won by seven wickets.

After a keen bowls match, the LMBA beat the BID by eight shots.

New Ministry Booklet

Suggestions for meeting requirements for adequate cloakroom facilities for industrial workers, with reasonable facilities for drying clothing during bad weather, are made in a new booklet 'Cloakroom Accommodation and Washing Facilities in Factories' published by the Ministry of Labour and National Service (HMSO, price 2s. 6d.). This is the latest of the Ministry's new series dealing with safety, health and welfare in industry.



left : 'Muragard' curtain wall, produced by Gardiner's manufacturing division, has been used for the front elevation of the new building in Straight-street

below : A view of the octagonal reception area in the new building

OFFICES, SHOWROOMS AND WAREHOUSE AT BRISTOL.— This building occupies a 5-acre site in Broad Plain, Bristol, and it houses both the Merchant and Manufacturing Divisions of Gardiner, Sons & Co., Ltd. The scheme consists partly of converted old buildings and partly of new construction such as the corner block illustrated above. The architect was Adrian E. Powell, ARIBA, and the general contractors were Stone & Co., Ltd.

MANCHESTER BUILDING FORUM

Symposium One: 'Towards Management'

From a Correspondent

SPEAKING at the Symposium 'Towards Management,' organised by the Manchester Building Forum at Buxton from May 1 to 3, MR. PETER E. TRENCH, OBE, director of the National Federation of Building Trades Employers, defined the building industry as consisting of four main groups: the professional and design group consisting of architects, engineers, quantity surveyors and consultants; the commercial group of manufacturers, producers, distributors and stockists of materials; the industrial group of builders, sub-contractors, specialists and operatives; and the service group for research and matters educational and governmental.

'Together these groups form the building industry,' said Mr. Trench, 'and it is the co-ordination of the individual members of these groups which produces the successful building—one which looks well, functions well, costs the right price and which is built well. This then is what I mean when I refer to the "building industry."

'The cost of building has a direct bearing on the cost of exports,' Mr. Trench continued. 'The cost of producing our fixed assets is of vital importance for this cost is reflected in the price of goods produced and, therefore, their competitive selling power abroad. This cost is also reflected at home as measured by interest, rent and depreciation.

Increasing Productivity

'Our constant aim must, therefore, be to increase our productivity for only in this way can we sell more and raise our standard of living. If in the building industry we can increase our productivity by five per cent we can save £100m., or alternatively build £100m. worth of building more than we have at present with the same resources. Since the war agriculture has increased its productivity by 50 per cent, building by less than 20 per cent.

'This increase in productivity is not merely a question of making the building operative work harder, but lies in the hands of all the groups outlined above, for the greatest increase in productivity can be brought about by an increase in managerial efficiency and the best possible use of plant, man-power, materials and land. This is the concern and responsibility of all of us.'

After outlining the development of the industry since 1900, Mr. Trench went on: 'The building owners over the last 50 years have been increasingly interested in time and cost and the efficiency rather than the appearance of buildings erected on their behalf. The need for economy has been paramount.

'Of the future, despite apparent practical disadvantages of having the state as a large owner of buildings, and of a policy of full employment in an age when employers and employed have, to some extent, failed to find a formula for rapidly increasing productivity such a policy has for the building industry certain very considerable advantages. In good times there can be no question of a falling demand for our products, and in times of recession it is now possible, and highly probable, that the Government of the day will, artificially if need be, stimulate demand for our products. This is not new. During the '30s building showed it could absorb large numbers of unemployed. The number of insured employed in building rose by over 200,000 (25 per cent) between 1930 and 1939, and this expansion was undoubtedly a major contribution to our recovery from the slump of the early '30s.

'We would be foolish, however, to be complacent and we would be shirking our responsibility to the people of this country if we were ever to take advantage of our privileged and somewhat sheltered economic position.'

MR. R. M. MCNAUGHT, FRIBA, president of the Manchester Society of Architects, had opened the proceedings on May 1, welcoming some 69 members drawn from the Manchester, Salford and District Building Trades Employers' Association, the Manchester Society of Architects and the Lancashire and Cheshire Chartered Quantity Surveyors of the Royal Institution of Chartered Surveyors; the three organisations which have jointly formed the Manchester Building Forum.

The Forum was defined by MR. HAYDN W. SMITH, FRIBA, a member of the organising committee, as a non-political, non-executive organisation which made it possible for all sides of the building industry to examine and discuss jointly mutual problems in the management of building projects.

This first residential week-end meeting, Symposium One: 'Towards Management,' was concerned with current problems in the management of building projects. It was limited to jobs having a contract value up to approximately £100,000. These problems were discussed from the point of view of the architect by Mr. J. M. Austin-Smith, FRIBA and Mr. Eric S. Benson, FRIBA, the point of view of the builder by Mr. R. O. Gerrard and of the quantity surveyor by Mr. R. G. Davis, FRICS.

Each speaker concerned himself with problems within his own experience, outlining some of the difficulties of management, both of his own and other people's making.

Firm Price Tendering

The Minister of Works, MR. HUGH MOLSON, MP, addressing the Forum on May 2, said: 'I am fortunate in speaking to you just before you hear a paper on pre-tender and contract procedures. It is to this stage of the best pre-war procedure that the Government has been trying ever since April, 1957, to get back. We have reintroduced firm price tendering for practically all jobs which can be completed in two years and which are fully planned in advance.

'I am sure many of you will say that you seldom find a building owner who really knows what he wants and does not change his mind. It is part of the architect's job—admittedly a difficult part—to convince the building owner that the whole building must be planned in advance. I think I can give an assurance that in the Ministry of Works where our building programme is approximately £50 million a year we do that. I am most anxious that all other building owners, including local authorities, should also have their work fully planned with complete drawings and specifications before a firm price tender is asked for.

'When I announced that so far as the Government was concerned we were going to insist on firm price tendering, I said that this could only be fairly expected of contractors if they knew in advance exactly what they were asked to do, if their tender was promptly accepted and if there were very few changes after the tender had been accepted.'

It was announced that the second Symposium to be held next year would be concerned with what might be defined as 'The Official Client and the Building Industry.'

BOGNOR REGIS REDEVELOPMENT

Ambitious Plans Submitted

IF plans for the redevelopment of Bognor Regis come to fruition, this West Sussex resort should become one of the country's foremost seaside towns, writes a correspondent.

Mr. Jack Godfrey-Gilbert, ARIBA, consultant architect to Bognor Urban Council for the redevelopment of the seafront, has submitted his report, with sketches, to the Council. His suggestion is that along a quarter of a mile of the esplanade five blocks of 15-storey flats could be built, each with its own restaurant, underground garages, tea terraces, and other amenities. In between, there would be wide spaces with terraces and gardens. Main traffic would be kept out of the esplanade, only slow-moving traffic being allowed.

The sites would be made available by the Council to private developers, in which way the local authority would make huge gains from rates.

The draft lease for Butlin's £2½m. holiday camp close to the beach is now with Mr. Billy Butlin. A 15-storey block of flats is about to be started at Fitzleet, a few hundred yards from the beach, surrounded by new roads, shops, a department store, a petrol-filling station, and a supermarket. An estate with houses, flats, and bungalows is planned for Felpham just along the coast. A concert hall, a winter garden, a civic centre, and new hotels are proposed.

MR. J. C. EARLE, chairman of the Bognor Urban Council, is of the opinion that much of the extensive development is likely to come to fruition rapidly. 'The money is waiting to come into the town, and people want to come to Bognor,' he says. He expects a noticeable advance within the next two years.

Timber Information Leaflet

The Timber Development Association's most recent advisory service leaflet—Number 8, 'Exterior Clear Finishes for Timber'—summarises the most up-to-date results in the series of tests which the association is conducting on exterior finishes. Copies of the leaflet may be obtained free of charge from the Headquarters of the Association at 21 College-hill, London, EC4.

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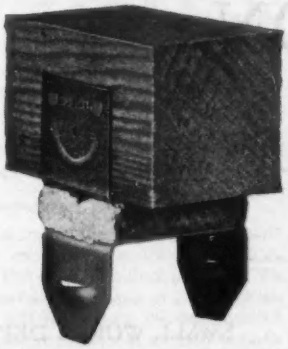

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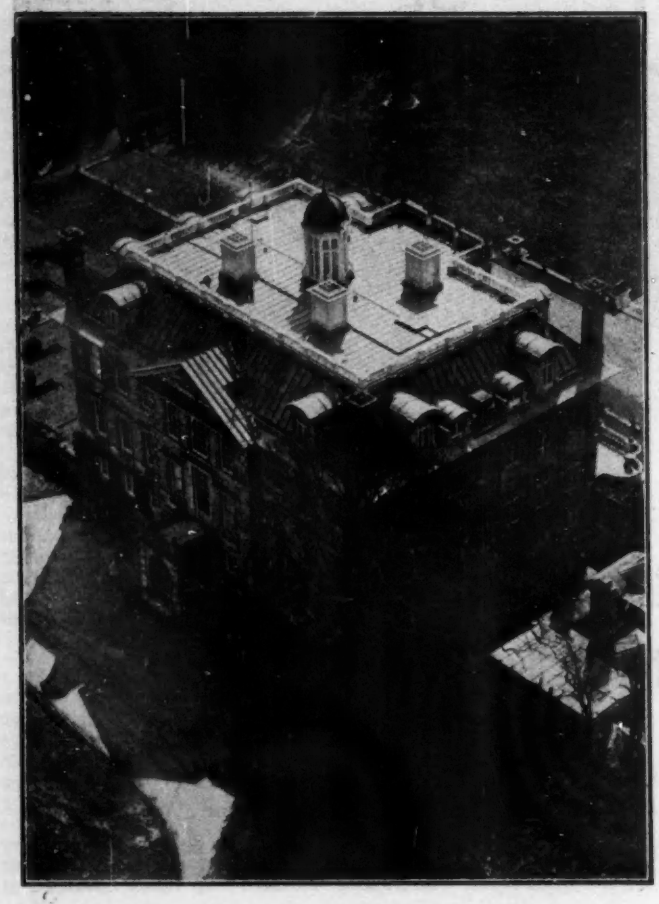

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HOSPITAL PLANNING FROM A MEDICAL VIEWPOINT

Paper to the Royal Society of Health

AT the 66th Health Congress, held by the Royal Society of Health in Harrogate from April 27 to May 1, a paper by DR. J. O. F. DAVIES, dealing with hospital planning in relation to present trends in medicine, was brought forward for discussion.

Dr. Davies began by pointing out that expansion in the building programme has not been equal to the increased demand for hospital treatment since the Health Service was introduced. This had, to a certain extent, been counterbalanced by the policy of improving the quality of the medical, nursing and ancillary staffs as well as the increase in the number of specialists available to speed up the admission and discharge of patients. He continued:—

Much remains to be done to meet the needs of the community, but there is a very real danger that if changes in medicine continue at the pace of the past seven years, the buildings to be erected may well be out of date before they are occupied. This problem can only be reconciled by flexible planning so that buildings can easily be adapted to the constantly changing needs. The difficulty of forecasting trends in medicine—there is no accurate knowledge of the incidence of disease save for notifiable conditions—adds considerably to the problem.

Provision will have to be made to meet the demands of many new developments in the treatment and rehabilitation of patients. Physical medicine (somatic and psychiatry); advances in pathology and radiology lead in turn to a greater degree of specialisation and the need for complex and expensive equipment. The increasing use of powerful drugs calls for careful clinical and laboratory control necessitating the provision of buildings large enough to accommodate staff engaged in this work. Highly specialised equipment will need to be located in major centres and will probably involve the provision of hostels to save patients travelling for treatment. The dangers of cross infection will also have to be studied with a view to developing new techniques about isolation hospitals. The demand for places in children's hospitals is to a large extent seasonal and consideration should be given to a system whereby the accommodation can be used for the treatment of other types of patient.

Another matter for consideration is the day hospital concept involving the attendance of patients for treatment during the day, returning home in the evenings and during the week-ends.

Therapeutic Communities

The provisions of the new Mental Health Bill present one of the major problems of our time. The new situation in which the Mental Hospital is regarded as a therapeutic community will necessitate the modification of existing buildings to meet the new requirements. More and more is it recognised that psychiatric patients need to be dealt with in small groups and provided with activities suitable to their ability.

Planning in the Light of Trends

On this aspect of the problems Dr. Davies said: There are those who say that hospitals should be planned on the outside of cities and towns, as distances will mean nothing when everybody has a car. Whether the whole population of this country will in due course possess cars is something on which I am unable to comment. On the whole, I think that there is much to be said for locating hospitals in the midst of the communities which they serve, but I agree that this involves making special provisions for car parking, possibly in tiers.

One of the main conclusions reached in Oxford when the subject of planning was being studied a short time ago, was that there will be no need for a large increase in the total number of beds, although many of those at present in use will require regrouping or replacement. It was also the view that no provision should be made for separate hospitals for specific use, save perhaps for smallpox, and that where possible all departments, including chronic sick, should be grouped together on the same site. There are ideas about bringing all patients needing mental hospital care on to the same site as the so-called general hospital.

Among the many advantages in having departments grouped together, not the least is easier staffing of the chronic sick wards. The techniques of diagnosis are increasingly time-consuming and complicated, so that services like radiology, radiotherapy, pathology and physiotherapy should be centralised, allowing skilled ancillary personnel and costly equipment to be conserved and used to maximum advantage. There is little future for cottage hospitals, save in exceptional cases.

Flexibility the Keynote

The clinician, when approached on the subject of hospital planning, always asks for flexibility and even requests that walls should be movable. This is another way of saying that medicine is constantly changing and that it is impossible to forecast accurately what the changes will be. There are, however, many factors which can be taken into account, one of them being the need to make nursing easier. Wards should be planned so as to be usable for varying purposes and, in non-teaching hospitals at any rate, should not be tailor-made to suit the immediate requirements of any particular department.

Ward arrangements should be such as to cater for patients with differing nursing needs, easy to work and allowing the maximum of skilled nursing care to be readily devoted to those who most need it. This involves patients who are severely ill being more easily observable and accessible. At the other end of the scale, patients recovering should be allowed to fend for themselves to an increasing extent and arrangements should be such that those who are able to do so should eat in a dining or day room, convenient of access to the place from which the food is served, perhaps collecting their own meals by a cafeteria system.

There are various applications of this policy in different acute units and it is to be hoped that these ideas may be borne in mind in new building or in adaptations to existing hospitals. It is to be hoped too that in future construction arrangements will be made for more patients of one sex than another to be dealt with as occasion demands. Architects could without much difficulty make arrangements for beds so to be arranged that they might be used by groups of male or female patients dependent on current demand.

The provision of a convalescent ward to which patients could be discharged a few days before leaving hospital is likely to enable them to return home earlier than if they were sent to a convalescent unit distant from the parent hospital. Not the least of its advantages is that it is not allocated to any particular specialist and can on occasion be put at the disposal of hard-pressed departments for short periods. Complete replanning of the wards of some of our older hospitals may be impracticable, but effect might be given to the different nursing needs of patients by providing a convalescent ward.

The Problem of Cross-Infection

One of the demands of the day—and a reasonable demand—is for a degree of privacy. Some is provided by the use of curtains, but unless easily cleaned they may contribute to the problem of cross-infection. Most ward designs do now provide for a number of single rooms, required for a variety of reasons, of which privacy is only one The recent report on 'Staphylococcal Infections in Hospitals' makes it clear that arrangements must be made for the isolation of patients. This involves the provision of single rooms, with separate sanitary facilities, and these should be provided for not less than 20 per cent of the total number of beds in the ward. Other recommendations of this report which have an influence on hospital planning and construction, both of which diminish the hazards of air contamination, are treatment rooms with controlled ventilation and a return to more generous bed-spacing.

Operating theatres must be designed with controlled ventilation. It is desirable, except in special instances, that theatres should be grouped so that each may be served from a central sterilisation department located near-by. Such a department is better able to ensure sterility, allows of standard nursing packs, and diminishes the expenditure of nursing time and energy on sterilisation and local preparation, which at present occurs throughout the hospital. Adjoining the operating theatre should be recovery rooms, in which patients remain for varying periods of time, with the surgeon and anæsthetist close at hand. The post-operative recovery room requires equipment and nursing techniques of a high order.

The new look which is to be given to the mental hospital service will mean that new buildings are badly needed. As has already been indicated, patients should be dealt with in small groups; buildings should, therefore, be designed primarily to cater for small numbers of patients, who can be adequately nursed as a group and provided with activi-

ties suitable to their capacity, regardless of the clinical condition from which they may be suffering. The hospital should consist of groups of these small units, but the total number of beds should be relatively small, say 300 to 500, and the hospitals of 1,000 to 3,000 beds regarded as an anachronism and a thing of the past.

The admission of a patient to a hospital is a disturbing event in his life, much more so than attendance at an out-patient department. Therefore the more investigation and treatment that he can undertake as an out-patient, the better. Out-patient departments should thus be developed to the full, with provision of adequate treatment rooms, minor operating facilities, and rest rooms where patients may recover sufficiently to be transported home later in the day by ambulance. Much can be achieved in making out-patient departments friendly and human places by adequate reception arrangements, the provision of smaller waiting spaces close to the consultant rooms and the avoidance of mammoth waiting halls. The arrangements should be such that the consultations take place in privacy and the patient does not feel hurried.

With some exceptions, out-patient departments should be usable by a variety of specialists, few of which need tailor-made consulting rooms. No less is the need for out-patient provision for the mentally ill patient. The more facilities patients have for receiving treatment from a psychiatrist before admission to hospital, the better. An extension of the out-patient concept is the day hospital, where the patient receives the therapeutic facilities available to the hospital without becoming an in-patient.

The casualty department deserves the best that can be provided, both in staffing and structure. This is the one department of the hospital to which patients gain access without passing through any other doctor's hands first. Casualty patients need privacy at least as much as any other patients, and there should be side-rooms off a main working area where patients can be kept under observation, receive treatment and be provided with the opportunity for rest after treatment.

ANCIENT MONUMENTS

Boards for England and Wales

THE Minister of Works has reconstituted the Ancient Monuments Boards for England and Wales. The members of the Boards, who have been appointed under the provisions of the Ancient Monuments Act, 1913, for a term of five years from April 1, 1959, are:—

ENGLAND

Chairman: Sir Eric de Normann. M. S. Briggs, R. L. S. Bruce-Mitford, Professor J. G. D. Clark, Trenchard Cox, Professor W. F. Grimes, Dr. D. B. Harden, Professor C. F. C. Hawkes, Dr. J. N. L. Myres, Nigel Nicolson, C. A. Ralegh Radford, P. K. Baillie Reynolds, Professor I. A. Richmond, Marshall Sisson, Sir Mortimer Wheeler, and a representative of the Royal Commission on Historical Monuments.

WALES

Chairman: J. D. K. Lloyd. Professor R. J. C. Atkinson, Professor E. G. Bowen, Professor A. H. Dodd, Professor J. G. Edwards, Professor W. F. Grimes, W. J. Hemp, A. H. A. Hogg, C. A. Ralegh Radford, P. K. Baillie Reynolds, Dr. H. N. Savory, Sir Ben Bowen Thomas, Professor David Williams

EVERYDAY THINGS

By Arthur W. Kenyon, CBE, FRIBA

LXXXI.—Saturday Morning Off

ONCE upon a time everyone used to work on Saturday mornings; they also used to work up to the very last minute on Christmas Eve and come back to work at the crack of dawn on the day after Boxing Day. But all this has changed; perhaps for the better, perhaps not. Only the few now work on Saturday mornings, whilst Christmas and other national festivals have developed a fore-and-aft stretch which tends to increase in elasticity each year.

London was, I think, responsible for the lead in giving up Saturday morning work, perhaps on account of the frustrations of travel. The government departments clung on to their Saturday mornings long after other offices had abandoned them, but now even they have given in. The building trade has always worked on Saturday morning, as on Good Friday, and Easter used to be considered the painters' paradise for it gave him work for the longest break of the year in offices. This was the great time for spring cleaning.

I notice nowadays in our weekly report sheets from sites a general tailing-off in the numbers of men to be found on the job in the Saturday morning column, but I think again this is probably most applicable to London and that the provinces have not yet followed suit. The shops in London appear to be busier than ever

on this morning of the week, so perhaps my idea of the frustration of travel as a reason for no work on Saturday morning hardly holds good after all.

I find myself wondering what all the people who used to work on Saturday mornings now do with the free time they have gained. There is surely scope here for a social survey on the lines of: Do you (1) do the washing up? (2) take the children for a walk? (3) do the shopping? (4) take the washing to the launderette? (5) take a long lie-in? (6) wish you were at work?

We take it for granted that whatever the privileges of office-workers, those who serve shall work on all days of the week; so the milkman, the postman, the bus driver, the newspaper vendor, and the legion of others of their kind, cannot hope for this tidy life of five days on and two days off. We must hope they have other compensations.

Whilst the motions of building operations are still maintained on Saturday morning, I am not sure how much work is actually done. What I do know is that the architect is not a very welcome guest on his building sites on that day. I think it is perhaps the time for getting ready to start a new week on Monday—as indeed it used to be in offices. I would like to think that the shovels are cleaned, the mixers scoured out, the machinery oiled and the scaffolding loaded for a clean start on Monday.

When it comes—as come it must from present trends—that building work no longer goes on at all on Saturdays, will time be taken off on Fridays for the preparations which seemed to belong so appropriately to the odd half-day of the working week?

LAW REPORT

SETTLEMENT OF HOUSE FOUNDATIONS: DAMAGES AGAINST BUILDER UPHELD ON APPEAL

Court of Appeal, Before Lords Justices Hodson, Romer and Pearce

Crawley v. Ridge

AN award of £1,155 damages to Dr. Robert B. L. Ridge, of 27 Bycullah-road, Enfield, against Mr. Henry Crawley, a builder, of The Ridgeway, North Chingford, in respect of misrepresentation on the sale of a house was upheld by the Court of Appeal on May 13.

MR. H. G. GARLAND, for Mr. Crawley, said that in November, 1954, Dr. Ridge bought the house for £4,625. Mr. Justice Donovan, who found that Mr. Crawley knew that cracks in the house indicated settlement of the foundations, awarded Dr. Ridge £955, the cost of underpinning, and £200 in respect of inconvenience for eight weeks while the work was done.

Mr. Garland submitted that there was no evidence of any misrepresentation by Mr. Crawley.

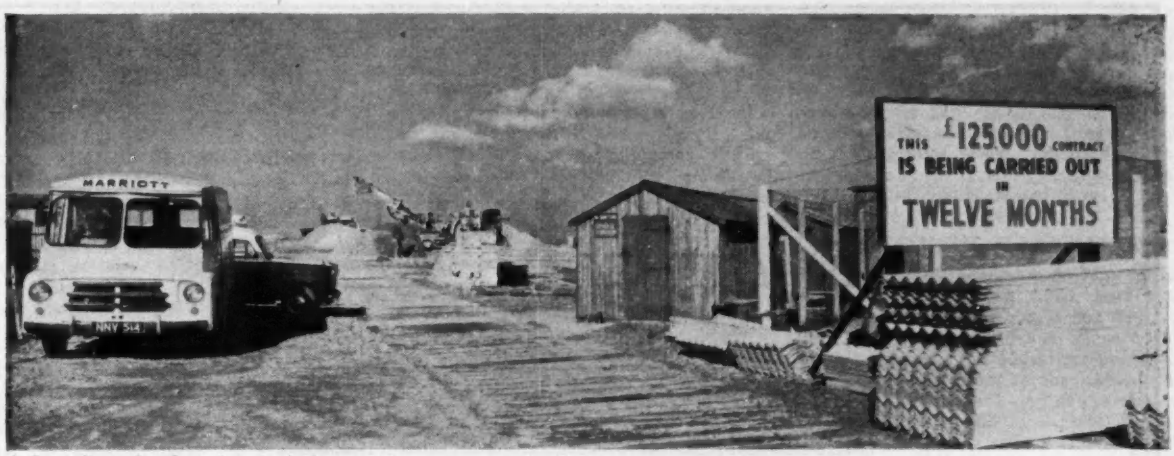
MR. L. G. SCARMAN, QC, for Dr. Ridge, contended that there was concealment by Mr. Crawley of material defects in the house.

LORD JUSTICE HODSON, giving judgment, said that the judge found that the house was unsafe, as it was built on clay and had subsided over the years. Dr. Ridge's case was that he was induced to buy the house by Mr. Crawley's fraud.

The judge found that in 1951 Mr. Crawley filled up cracks in the house and made it look superficially good. In 1955 Dr. Ridge saw a crack and called in an architect, who concluded that there had been a settlement of the foundations. A crack in a bedroom had been papered over.

There was evidence, on which the judge was entitled to act, that Mr. Crawley's fraudulent statements and his conduct established a false representation which influenced Dr. Ridge to buy the house.

LORDS JUSTICES ROMER and PEARCE agreed, and the appeal was dismissed with costs.

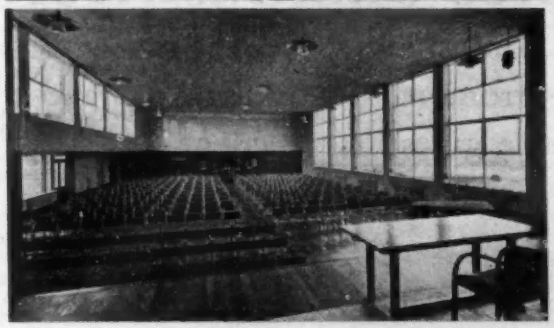


A clean site and a clear statement of purpose are hallmarks of the start of a Marriott job.

MARRIOTTS OF THE MIDLANDS BUILD–

£125,000 school in 12 months

A view of the new gymnasium of the Icknield Secondary Modern School at Luton.



The main Assembly Hall of the new building looking down from the stage.

Architects: The Luton Borough Architect

THE £125,000 contract for a new wing of the Icknield Secondary Modern School at Luton was commenced on January 1st, 1958. The job was completed precisely 12 months later as contracted, and as announced on the notice board placed on the site the day work commenced.

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IN PARLIAMENT

By Our Parliamentary Correspondent

INDUSTRY AND DEVELOPMENT AREAS

MR. JOHN RODGERS, Parliamentary Secretary to the Board of Trade, staunchly defended the Government's policy in development areas when on May 14 MPs debated an Opposition motion, subsequently defeated, calling on the Government to use far more vigorously the powers under the Distribution of Industry Acts to bring new industry and employment to development areas.

Moving the resolution, MR. LLEWELYN WILLIAMS said the Opposition could not accept that the Government had succeeded in steering industrial development away from the congested areas. The Government had most certainly not succeeded in solving the high incidence of unemployment in development areas. There were signs of improvement but so much more needed to be done. Why could not more use be made of the power to make grants or loans with Treasury consent towards the cost of important basic services such as water supplies, sewerage schemes, heating and roads? The Government had failed miserably to carry out the provisions which gave the Board of Trade powers to acquire development land and derelict areas, either compulsorily or by agreement, to provide industrial sites and open spaces.

MR. ROGERS claimed that in the last few months the Government had done much to re-inflate the economy and to create a general background of further employment which could make the steering of industry easier than it had been. The policies the Government had been pursuing proved they were the guardians and not the assassins of full employment.

There were 28 empty factories in development areas. These had been built with taxpayers' money and the Government believed it was prudent to provide further new premises only where long-term occupation could be ensured. On an experimental basis three advance factories were being built and the value of further speculative building would be judged in the light of this experiment.

New factories or expansions under construction or approved in development areas amounted to an aggregate of 3,500,000 sq. ft. at a cost of £10m. The potential new employment from these would be by the end of this year 6,000 jobs, rising to 11,000 by the end of 1960, and to 17,000 by the end of 1965.

The importance of taking steps to bring employment to development areas was fully recognised. Under the Datac scheme about 160 applications for assistance had been received from England, 80 from Scotland and 40 from Wales. Scotland had had the highest proportion of approvals and England the lowest although the latter had the lowest number.

The Government were quite prepared to refuse industrial certificates in appropriate cases. Since last July they had refused certificates amounting to over three million square feet. They were doing all they could to find a way of restoring the balance between sections of the community that were almost over-prosperous and sections which were becoming under-privileged.

MR. DOUGLAS JAY said there ought to have been a great shift in the percentage of national factory building going to London and the development areas, but on the figures for the first three months of 1959 compared with the same three months of last year, there had not been an effective change. It was a little disturbing.

Housing Ministry's Policy

MR. HENRY BROOKE, Minister of Housing and Local Government, said he and his predecessors had been acting with planning powers. In 1955, Mr. Sandys approved the London development plan, but in doing so withdrew 380 acres which the LCC desired to allocate for industrial and commercial premises and said they must be re-zoned for residential purposes. The same had happened in Middlesex. Since 1938 about one million people had gone out of the overloaded county of London and something like 200,000 factory jobs had moved out of London.

Around each of the great cities green belt plans restrained industrial development. However prosperous a city, it was not permitted that industries should sprawl out and out holding more and more people into the nucleus. Permission to use 592 acres for industry on the Warwickshire side of Birmingham was refused between 1950 and 1957 and on the Staffordshire side 367 acres were withdrawn from industrial use. All this had the Government's support.

It was the Government's desire to make wise provision for overspill plans from the great cities, many of whom could not possibly rehouse all their people within their own boundaries. Smaller towns had been wise in realising they might be able to revitalise their own lives. Thetford had recognised its best chance was to try and bring workers and industry from a great city. He greatly hoped, judging from the atmosphere in the relations between London and Thetford, that there and at many other places it would be a success.

NEW HEADQUARTERS.—A model of the 13-storey, 160-ft. high headquarters office block to be built for the Radiation Group on the North Circular-road at Neasden, NW10. The tower will be of reinforced concrete construction. The architect is Mr. D. E. Pugh, ARIBA, with Mr. F. R. S. Yorke, FRIBA, as consulting architect; the structural engineers are Messrs. Ove Arup & Partners; and the quantity surveyors are Messrs. Davis, Belfield & Everest

INVESTMENT ALLOWANCES

BEFORE they adjourned on May 15 for the Whitsun recess, which lasts until June 2, MPs spent three days last week on the committee stage of the Finance Bill which implements the Budget proposals. An Opposition amendment to the clause dealing with the restoration of investment allowances and the additional grant of initial allowances in certain cases was defeated by 213 votes to 170. The proposals were published in *The Builder* of April 10.

MR. J. DIAMOND moved an amendment the purpose of which, he said, was to increase the attraction of the Chancellor's proposals and make it 'a worth-while attraction.' The inducement the Chancellor was offering was remote, as well as negligible. Investment allowances and initial allowances were now to be a little more than they were. There was now to be a little attraction to those responsible for running businesses which involved plant, owning industrial buildings and running mines.

The amendment, he claimed, would give them the necessary encouragement to do what the Chancellor wanted and what they all wanted—to bring into immediate consideration the plans for modernisation which they otherwise would not have brought into consideration until much later.

MR. HEATHCOAT AMORY, Chancellor of the Exchequer, said he acknowledged that the right amount of encouragement to give was essentially a matter of judgment. It was estimated that the cost of his proposals would be nothing this year, £9½m. in 1960-61 and about £15m. in 1961-62. The increases proposed in the amendment would cost nothing this year, £13m. in 1960-61 and £23m. in 1961-62.

The object of his Budget proposals was to fortify a bit further the stimulus and the steadiness following from it which he gave last year in the Budget by increasing the initial allowances by 50 per cent, and to do something to encourage those who were now planning investment expenditure to put that expenditure in hand now rather than a bit later. He had felt that he could safely go a bit further in this direction, but not too far. At present he felt he must back his own judgment.

HELICOPTER STATIONS

MR. STAN AWBERY tackled the Parliamentary Secretary to the Ministry of Transport and Civil Aviation about what steps he would take to develop helicopter stations near large cities. MR. JOHN HAY replied that the Minister was watching with the greatest interest the development of the helicopter, but local authorities were generally in the best position to provide helicopter stations near large cities. They already had the necessary powers and he was glad that many had, with the Ministry's advice, already earmarked sites.

MR. HAY recalled that they had published a pamphlet in 1956 on the planning of air stations for single-engine helicopters and they had given further advice to 119 local authorities, including Bristol Corporation. He did not think it would be proper for him to say that they would be willing to ask the Treasury or anyone else to make grants available, because this matter was still very much in the experimental stage.

Questioned by MR. FAREY-JONES, MR. HAY said there was nothing whatever to stop a private firm from opening up a helicopter station if it wished, provided it could obtain the necessary planning permission, but the Ministry view was that this was a matter which, broadly, should be left to local authorities.

OTHER BUSINESS

Distribution of Industry Act

MR. ERROLL, Economic Secretary to the Treasury, replying to MR. P. WELLS on April 30 said: '251 firm and eligible applications have been received under the Distribution of Industry (Financial Provisions) Act 1958, of which 38 have so far been granted. The total sum offered as assistance amounts to £1,039,620. The time taken to investigate and reach a decision on each application depends on the nature of the proposals. It may be as short as a month or extend over three or more months.

Payment by Cheque

MR. PAGE asked the Minister of Labour, on May 11, if he would make a statement concerning his intentions with regard to legislation to authorise the payment of wages of manual workers otherwise than wholly in cash, and to reviewing the Truck Acts as a whole with a view to amending legislation respectively.

MR. IAIN MACLEOD wrote in reply: 'My National Joint Advisory Council has accepted the view that wages might, at the request of the worker and with his employer's agreement, be paid into the worker's bank account or by cheque, and in certain circumstances be paid by money or postal order. As regards the last part of the question, the Council recommended that a committee should be set up to review the operation of the Truck Acts and to make suggestions for bringing them into line with modern conditions. I very much welcome these initiatives and both these matters are now receiving the attention of the Government.'

Post Office, Stoke-on-Trent

MR. ELLIS SMITH asked the Minister of Works, on May 12, what consultations he had had or proposed to have with Stoke-on-Trent and British Railways about the proposed Government buildings on the Station-road site, Stoke-on-Trent.

MR. HUGH MOLSON: 'The local planning authority will be consulted about the form of the development. British Railways, who are selling the site to the Post Office, will also be consulted so far as their interests may be affected. The site being acquired by the Post Office does not adjoin the railway lines, and the Ministry will not be concerned with the general development of the area between the Post Office's site and the railway. The buildings erected on this site will be of modern design. It is hoped that tenders may be invited during 1961, work started three or four months later, and the scheme completed two years after that. The contract for the building work will be put out to competitive tender among selected firms.'

Housing Standards Inquiry

MRS. JOYCE BUTLER asked the Minister of Housing and Local Government, on May 12, what action he proposed to take with regard to an inquiry into housing standards, with particular reference to private houses of less than the minimum standard for local authority dwellings.

MR. BROOKE wrote in reply: 'At my request a sub-committee of the Central Housing Advisory Committee has recently started to make a review of housing standards. This will cover privately built houses as well as houses provided by public authorities. The task is a large and difficult one, and will take time to complete.'

Factories in Development Areas

MR. MCINNES asked the President of the Board of Trade, what was the area of new factories built in each of the development areas and the Home Counties area during the year 1958.

SIR DAVID ECCLES wrote in reply, on May 8, that new factories and extensions (over 5,000 sq. ft.) completed during 1958 in the development areas were (in 1,000 sq. ft.): North Eastern, 2,337; West Cumberland, 40; South Wales, 2,614; Wrexham, 108; South Lancashire, 1,141; Merseyside, 885; North East Lancs, 189; Scottish, 2,757; Home Counties, 9,244. The Home Counties comprised Middlesex, Hertfordshire, Surrey and parts of the counties of Essex, Kent, Buckinghamshire, Berkshire and Bedfordshire.

Traffic Engineering Courses

MR. STRAUSS asked the Minister of Transport on May 13 how many people he proposed to send from his department to take a course in traffic management at Yale or elsewhere; what other organisations would be participating in this scheme; and how long the courses took?

MR. HAROLD WATKINSON wrote in reply: 'I have approved the proposed visit of two officers of my department to Yale University this autumn to enable them to take the post-graduate course in traffic engineering which is organised by the university. Traffic engineering is bound to play an increasingly important part in our general traffic planning if the best possible use is to be made of our existing road system and of additions to it.

'I am glad to say that the London County Council, the Birmingham City Council and Messrs. Wilson, Kirkpatrick & Partners have each applied to enter an engineer from their staffs for the course, which lasts for eight months.'

New Factory Building

AT QUESTION TIME on May 14, MR. RODGERS said that 9,957 factory building projects and extensions were authorised from 1956 to 1951 and 16,095 from 1952 to 1958. In Wales there were 570 new factories and extensions of over 5,000 sq. ft. from November, 1951, to the end of March, 1959, and 566 from 1945 to October, 1951, of these 151 and 203 respectively were new buildings on new sites.

Asked how many applications in England and Cornwall for the granting of financial assistance under the Distribution of Industry (Industrial Finance) Act, 1958, had been approved, MR. ERROLL, Economic Secretary to the Treasury, said '14 applications from England (excluding Wales) have been approved. This includes six from Cornwall.'

Bills Receive Royal Assent

THE House Purchase and Housing Bill, the Housing (Underground Rooms) Bill and the Rating and Valuation Bill received the Royal Assent on May 14.

Historic Buildings, Sheerness

LORD CONESFORD asked the Government in the House of Lords on May 14 whether they recognised the architectural distinction and value of the buildings at Sheerness, Kent, which the Admiralty were giving up.

THE EARL OF SELKIRK, First Lord of the Admiralty. — 'The Government are aware that a number of the buildings at Sheerness completed during the first quarter of the last century are of architectural interest. Seventeen residence and eight other buildings, including the quadrangle, the old Admiralty House, and the dockyard church, have therefore been listed under Section 30 of the Town and Country Planning Act, 1947, as buildings of special architectural and historical interest. This requires that two months' notice be given before any alterations seriously affecting the character of the buildings. The local planning authority or the Minister of Housing and Local Government can then make a preservation order under Section 29 of the Act if it is considered expedient to do so.'

OBITUARY

S. T. Hennell, FRIBA

The death has occurred, on May 11, of Mr. Sidney Thorn Hennell, FRIBA, of 'Little Heath,' Victoria Drive, Bognor Regis. He was 78.

E. F. Bays

WE REGRET to announce the death, on May 10, at his home 'Kynnersley,' Clanthams-road, Shenfield, Essex, of Mr. Ernest Frederic Bays. He was 73.

Mr. Bays was a professional heating engineer and had been connected with the heating and air conditioning industry for over 50 years. He was chairman and managing director of J. Wontner-Smith Gray & Co., Ltd., engineering contractors, of Cambridge and London, and in addition he was a director of other engineering companies.

Largely owing to his professional career he acquired a deep interest and affection for old buildings, which was expressed in the work he carried out in many famous buildings, houses and churches.

Public Baths, Connah's Quay

Connah's Quay U.D.C., Flintshire, is contemplating building its first public baths, together with an assembly hall, at an estimated cost of £102,915. There were no objections to the proposal when the Ministry of Health held a public inquiry recently.

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Eastern Counties Consultative Board

Recent Activities Described

THE work of the Eastern Counties Joint Consultative Board of Architects, Quantity Surveyors and Builders during the past two years is recorded in the sixth report of the Board, now issued from the EFBTE'S offices at 95 Tenison-road, Cambridge.

In the two year interval which has elapsed since the issue of the fifth report, the Board on October 7, 1958, marked its silver jubilee with a lunch in Cambridge to which, in addition to the principal guests from the National Constituent bodies, members of the Board were pleased to welcome some founder members who attended specially to celebrate the Board's 25th anniversary. The chairman of the Board in 1958 was Mr. P. V. Mauger (architect) and in 1959 Mr. W. G. James, CBE (builder). The honorary secretary of the Board is Mr. R. W. Porter, MBE, director of the Eastern Federation of Building Trades Employers.

Matters Dealt with and Recommendations Made

Tendering Procedure.—Having regard to all the factors involved the Board considered it highly desirable that, subject to exceptional circumstances, the lowest tender in a selected list should be accepted. This recommendation was submitted to the National Joint Consultative Committee in October, 1957, who made arrangements for it to be considered in conjunction with the proposed code of tendering procedure. At its meeting in March, 1959, the Board expressed its grave concern at the considerable delay in agreeing the code of tendering procedure, and it was decided unanimously to urge the National Joint Consultative Committee to expedite the issue of this important document.

The Board considered that once a suitable code was published and accepted certain of the problems which had been considered in the past few years might largely disappear. The Board have noted with regret that there has not been universal acceptance by public authorities of the Howard Robertson Committee recommendation on the number of firms selected to tender for contracts in various categories.

Errors in Tenders.—The Board found acceptable the view that where errors occurred in bills of quantities the contractor should adhere to his original tender figure or withdraw.

Firm Price Tendering.—On the reintroduction of firm price tendering the Board were concerned to note that, whereas main contractors were being required to give a firm price, certain specialists, sub-contractors, and suppliers had indicated that they were not prepared to co-operate. It was considered that firms in these categories should be made to realise that they formed part of the building contract and should therefore be expected to assume the same obligations as the main contractor.

Although reports had been received of the failure by certain private architects to meet essential conditions laid down by the National Federation of Building Trades Employers in its statements of July 11 and November 1, 1957, in regard to firm price tendering, the Board was pleased to note that there appeared to be recently some small improvement. The Board emphasised, however, the importance of observing the generally acceptable pre-requisites for tendering on this basis.

Consideration was given to the unfortunate situation which arose where an architect named a supplier (without a provisional sum) and had refused, perhaps, unreasonably, to specify an alternative firm when the quotation was not on a firm price basis. The Board considered that if main contractors were expected to give a firm price then there was a duty on the architect to ensure that a specific material supplier would be prepared to quote on a similar basis.

Annotated Bills of Quantities.—In October, 1957, the Board recorded the view that it considered that the use of annotated bills of quantities was to be encouraged and that these were strongly recommended where there was no adequate specification. This was communicated to the National Joint Consultative Committee, but nothing further has developed.

Cheques Act, 1957.—As a result of the provisions of this Act the Board felt that paid cheques should be regarded as evidence of payment in connection with building contracts provided that, where necessary, the records clearly related paid cheques to discharged accounts.

Quantities Rule.—In a review of the operation of the quantities rule of the National Federation of Building Trades Employers the Board placed on record their opinion that the principles underlying the rule were of considerable value in the efficient conduct of building operations and advised architects and quantity surveyors in the Eastern Counties to do everything possible to ensure the provision of quantities as contemplated under the rule.

Planning Permission and Tendering.—In an endeavour to ensure that planning delays did not adversely affect the conduct of building operations the Board suggested that, where appropriate, architects should seek outline planning permission so as to avoid delay or disappointment later.

Pre-Contract Collaboration

Pre-Contract Collaboration.—While the Board were fully appreciative of the value of co-operation between parties at the design stage, it was felt that it was not easy to introduce the competitive element in pre-contract collaboration since many problems arose in endeavouring to set down principles which could be generally applied to the many types of contract work. The Board decided to examine reported instances of the successful operation of 'parallel working' where the competitive element was present.

Joint Education.—The Board have been sorry to note the poor support from the professions for management courses organised by the Eastern Federation of Building Trades Employers at senior executive and management student level. In view of the great importance of joint education the honorary secretary has been asked to submit proposals for a joint week-end course to be held in 1960 possibly in Cambridge during the University Easter vacation.

RECRUITMENT OF APPRENTICES

An Example of Co-operation Between Employers & Operatives

THE spirit of co-operation that exists between the two sides of the building industry, which has always been a strong feature of the National and Regional Joint Councils' work, is well illustrated by a circular letter that has been sent to builders in the area by the Northern Counties Regional Council for the Building Industry, which is signed by Messrs. H. W. Wake and R. T. Weston, the Employers' Secretary and Operatives' Secretary, respectively. On the recruitment and training of apprentices the letter says:

'There is one matter to which the Council would ask all firms to give particular thought and attention, namely, the training of apprentices. That adequate numbers of apprentices are needed, if only to replace the wastage in the craft ranks each year, will be generally recognised. It is but fair that all firms engaged in the industry should play a proper part in training its personnel. On behalf of the Joint Council and the Joint Apprenticeship Committee, whilst being conscious of the splendid work done by many firms, may we, in a helpful spirit, submit the following points for consideration by each firm, namely:—

'1. Don't overload with apprentices but do take as many as you can train in a proper manner.

'2. Be as selective as possible in choosing the boys for training. The assistance of head masters and youth employment officers can be valuable in ensuring the selection of boys who are keen on making a career in the industry and who will make diligent apprentices.

'3. Recruit boys who will attend to their studies at technical school, as well as having regard to their potentiality in regard to practical work.

'4. If an error of judgment is unfortunately made in selection, make an early decision to give the boy an opportunity of seeking his future elsewhere and in any case before he reaches 16½ years of age.

'5. Indenture all boys whom you decide to train in accordance with the Joint Apprenticeship Agreement.

'6. Seek the assistance of the Local Joint Apprenticeship Committee at the first sign of a lad's lack of interest either in his practical work or his technical studies.

'7. Do please give every encouragement to your boys firstly to equip themselves thoroughly as craftsmen and in suitable cases to continue their studies in order to qualify as supervisors and managers.

'If you are not a federated employer,' the letter continues, 'we wish to make a further point for your consideration. The National Joint Council is the recognised authority for governing the industry so far as wages and working conditions are concerned. It is right that the industry should govern itself in such matters and it is right that all who benefit from the work of the Council should support it both financially and by taking part in its work. This can only be done through membership of the Employers' Federation constituting the employers' side of the Council. We are appealing to all builders thus to support the work of the Council.'

INQUIRY BUREAU

Treating Brickwork

Q.—I have just purchased an old cottage in Sussex and am in the throes of redecoration, etc. The fireplace and surround are brick but have been coated many times with various colour paints. This is all being 'hacked off' carefully as the original bricks are all in splendid condition and are of various shades, which I am anxious to retain. Can you please inform me if there is any kind of treatment, such as a shellac finish which would prevent the brickdust rubbing off and preserve their original colourings.

B. B.

A.—It is not without some surprise that I note our correspondent is able to remove the paint from the brick fireplace without damaging the surface of the brick. Bricks used in the construction of the fireplace are, I imagine, local bricks from Sussex and would not normally dust off from the surface. If, however, the bricks themselves have deteriorated due to insufficient burning at the manufacturing stage, then one might expect the dusting to occur, and in fact may be the reason why our correspondent is able to clean off the paint.

The paint being removed is bringing with it a thin layer of brick. Should this be the case then I am afraid our correspondent is not going to be very satisfied with the fireplace since there is little one can do to the bricks that would not destroy their character.

Assuming that it is possible to get back to the brick without destroying its surface, then the original lustre can be brought back to the brick and the colourings brought out by applying one or two coats of 'boiled oil' after carefully washing down first with a fairly stiff brush and clean water. From then on, say once a year, a coat of boiled oil will be all that is necessary to maintain the pleasing effect of a brick fireplace.

H O D.

Efflorescent Bricks

Q.—During 1958 we built and completed a bungalow under architect's supervision and RIBA Contract. The internal 11 in. plastered brick walls have suffered considerably with efflorescence and mould; the walls were decorated with emulsion paint supplied by a nominated supplier. There has been no trouble with the plastered clinker block walls or where concrete was used, neither have the plaster board ceilings been affected. We have been informed that the mould spores are airborne. It has since been discovered that the bricks specified came from a field prone to efflorescence. We have now remedied the damage and so far cured the mould trouble.

The above work has been carried out at considerable expense to ourselves and we should be glad to have your views as to who is responsible for the cost of this.

J. W. B.

A.—A Legal Correspondent writes.—Cases of this kind involve complex legal and technical questions, and I would therefore recommend the questioner to put all the facts before his solicitor for a full opinion. It may be useful, however, to indicate a few general principles.

The bricks were apparently the subject of three contracts. The building owner had a contract with a firm of builders. The builders bought the bricks from a firm of builders' merchants, and the latter obtained the bricks from the manufacturers. If the bricks were defective, the building owner can probably sue the builders for breach of contract either for failure to comply with the specification or on an implied term of the contract.

The builder's position is rather more complicated. In order to sue the merchants, he would have in my opinion to rely on one or other of the conditions of sale implied by section 14 of the Sale of Goods Act, 1893, viz.:

(1) Where the buyer, expressly or by implication, makes known to the seller the particular purpose for which the goods are required so as to show that he relies on the seller's skill or judgment, and the goods are of a description which it is in the course of the seller's business to supply, whether he be the manufacturer or not, there is an implied condition that the goods shall be reasonably fit for the purpose.

(2) Where goods are bought by description from a seller who deals in goods of that description, whether he be the manufacturer or not, there is an implied condition that the goods shall be of merchantable quality; provided that if the buyer has examined the goods there is no implied condition as regards defects which such examination ought to have revealed.

As to (1)—the onus of proof lies on the purchaser, but in most cases the onus is light. This is especially so where there is only one normal use for a particular article. Two of the leading cases on this subject concerned a hot water bottle and a pair of pants respectively. Obviously there is only one normal use for each of these articles, so the seller must be taken to have known the particular purposes for which they were required. I do not think that bricks come quite into this category. Having regard to the judgments in *Cammell Laird* v. *Manganese Bronze & Brass Co.* (1934) a case concerning a ship's propeller—I am of opinion that the purchaser would have to show that the merchant was informed, expressly or by implication, of the precise building for which the bricks were required. Furthermore, the purchaser would have to show that he gave this information so as to show that he relied on the merchant's skill or judgment.

I do not know whether the architect specified the bricks but I do not think that would make any material difference, because there would still be many matters requiring the seller's skill or judgment.

As to (2)—the word 'merchantable' appears to mean that the goods are fit for use. Thus, where there is only one particular use for the article in question (e.g. a hot water bottle or a pair of pants) it is not merchantable unless it is fit for that particular purpose. In the case of bricks, however, I think it would have to be shown that they were not fit for any use as bricks: *Cammell Laird* v. *Manganese, etc.* Here again the burden of proof lies on the purchaser, but it is not necessarily a heavy one.

The merchant is in much the same position as the builder. In suing the manufacturer, he too would have to rely on either or both of the statutory conditions discussed above.

I should perhaps emphasise that the building owner cannot sue the manufacturer direct for breach of contract, because the only contract to which the building owner was a party was that with the builder. He might possibly sue the manufacturer direct in tort following the principle laid down in *Donoghue* v. *Stevenson.* In that case a woman was drinking some ginger beer and suffered shock on discovering (so it was alleged) the remains of a decomposed snail in the bottle. The House of Lords laid down the principle that a manufacturer is liable for defects in his products liable to cause injury to life, limb or health provided there is no opportunity of intermediate inspection between manufacturer and consumer. This principle has never yet been extended to damage to property but there are dicta to the effect that the principle would apply in such cases. Assuming that such liability exists, the building owner would then have to show that the defective condition of the bricks would not have been revealed by any examination which might reasonably have been made by the architect or the builder.

A. E. T.

Liability for Damage to a Public Sewer

Q.—My builder when making the saddle connection between our new drain and the public sewer slightly fractured the sewer pipe. The work was done under the supervision of the local authority. The authority now require three new lengths of drain to be laid which would mean opening up the road, etc. In my opinion their requirements are excessive as I am satisfied that the sewer would function properly if the saddle connection were completed, and the whole encased in concrete. The original construction of the sewer did not include a concrete bed and I feel this was a contributory cause of the fracture.

I should be glad to know whether I can be held to be responsible for the alleged damage bearing in mind that the connection was being made under the supervision and to the requirements of the building inspector. Also, can I resist the extra work required by the authority, in which case what procedure should I take to submit my own counter proposals?

ARCHITECT.

A.—A legal correspondent writes:—In this case it appears that the owner of certain premises was exercising the right conferred on him by section 34 of the Public Health Act, 1936, to connect his drains to the public sewer. The local authority have apparently not exercised their option to do the work themselves so the work is done on behalf of the owner by a builder acting under the supervision of the authority. Whilst this work is being done damage is caused to the property of the local authority, namely the public sewer.

I am of opinion that the local authority have no power to compel the owner to carry out remedial work. Unless the public sewer falls within the categories mentioned in section 24 of the Act of 1936, the local authority must pursue the ordinary common law remedies of a person who considers that his property has been damaged by the action or negligence of another person. That is to say, in default of any agreement between the local authority and the owner for the carrying out of remedial works, the authority must themselves make the damage good and then, if need be, sue for damages, in the

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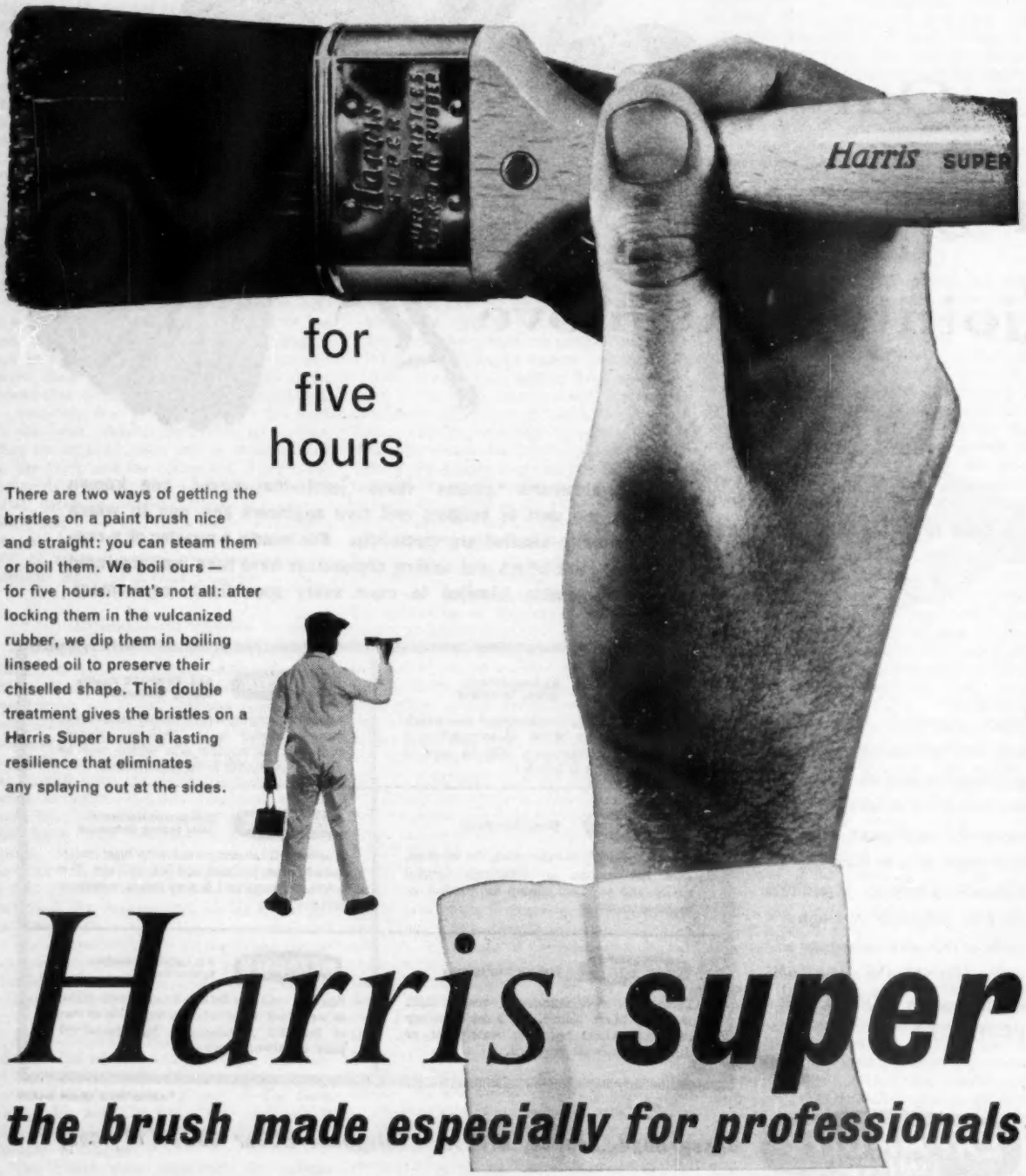

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county court. The county court judge would need to be satisfied on two main points:

(1) Was the damage due to the act or negligence of the builder as the owner's agent?

(2) If so, is the amount of damages claimed reasonable?

On the first point, the judge might well take into account the construction of the public sewer and the fact that the work was done under the supervision of the authority, though I do not think that either of these points would necessarily be conclusive.

A. E. T.

TRADE NEWS

Outlook for British Exports

THE April issue of the *Export Guide*, published by the General Electric Co., Ltd., Magnet House, Kingsway, WC2, gives the prospects of 36 product groups of British exports to 34 countries. The export prospects for the forthcoming quarter are 'good' in 13 countries, 'improving' in 8, 'deteriorating' in 8 and 'bad' in 5. (This shows a marked improvement on the January, 1959, issue of the Guide which indicated 'good' prospects in 9 countries, 'improving' in 6, 'deteriorating' in 10 and 'bad' in 9.)

Hand-Printed Wallpapers

A new collection of small design hand-printed wallpapers suitable for use in moderate-sized rooms has been introduced by Arthur Sanderson & Sons, Berners-street, W1. This is the first hand-printed book Sanderson have produced for two years, and in it can be found an infinite variety of design and colour combinations. There are some lively contemporary designs, a wide variety of stripes, checks, chintzes and damasks, in both rich and subdued colours. Copies of this book are available on loan.

'Users' Guide to Hardwoods'

Messrs. James Latham Ltd. announce that a second edition of their 'Users' Guide to Hardwoods' is now available on request from Leeside Wharf, Clapton, E5.

Vitreous Enamel Manual

Possibly the most useful section of a new manual on vitreous enamel now available from the Architectural Division of the Vitreous Enamel Development Council, 28 Welbeck-street, W1, is the one containing the recommended standards and general specification laid down by the Council. There are also a number of interesting working details and numerous colour illustrations.

COMPANY NEWS

At a meeting held recently the board of **Eastwoods Ltd.**, declared an interim dividend of 5 per cent (less tax) on the £2,000,000 ordinary stock of the company in respect of the year ended March 31, 1959, and the directors expect to recommend, in due course, a final dividend of 10 per cent to make a total for the year of 15 per cent (less tax).

PERSONAL COLUMN

It is announced that MR. P. BLANCHARD-COLE has relinquished his position as sales manager in the Bartrev Board Company, Ltd., Henrietta-hse., Henrietta-pl., W1.

MR. NORMAN STAFF, JP, ACA, has been appointed managing director of Winget Ltd., manufacturers of concrete-making machinery and contractors' plant.

LMBA

President on the Challenge of the New Age

PROPOSING the toast of Central Area 3 at its spring luncheon in Stationers Hall last week, the President of the LMBA, MR. K. J. PEARCE, said that he wanted to pay very sincere tribute to the leaders of the building trades unions for calling their recent conference to consider the effect of new techniques in the building industry. It was a step which might have a profound effect on the future of the industry.

The technical and scientific developments of the second half of this century would almost certainly be greater than those of the first half.

'Come what may, we must always remember that we are dealing with human beings,' Mr. Pearce continued. 'Changes in techniques, their effect on the crafts, on productivity, on employer and on operative must be the subject of free and uninhibited discussion.

'The anticipation of change naturally brings in its wake the fear of unemployment, and this is often the real cause of industrial disputes. But this fear is not the prerogative of the operatives alone. Employers, too, are often seriously concerned lest the changes in construction and techniques affect their own particular businesses. Both operative and employer must use the utmost endeavour to understand the other's point of view.

'With all this development taking place the next few years are going to be very interesting years in the life of the building industry, where every accepted practice is going to be challenged and only the best will be accepted.'

Mr. J. A. Porter, Chairman of the Area, presided, and Mr. G. T. Lloyd, the Town Clerk of Holborn, replied for the guests.

COUNTY OFFICES, SHREWSBURY

Preparation of Detailed Plans Approved

ON TWO OCCASIONS committees of the Salop County Council have considered Shrewsbury's Old Smithfield site as a possible site for the erection of the new County Offices, now scheduled to be built at the Column. SIR OFFLEY WAKEMAN told members of the Council this at their meeting on May 9 last when they gave their approval to go ahead with the preparation of detailed plans for the Column scheme, and the employment of an extra team of architects to carry out the work.

COL. J. G. E. BOROUGH, chairman of the general purposes committee, said the question of the Shrewsbury Smithfield site had been considered, but those who had considered it had not thought it a suitable site.

On the question of architects, the employment of an outside firm would involve the council in the expenditure of many thousands of pounds of extra money. The men employed would be absorbed later into the architect's staff—a staff which was never up to establishment.

Replying to the debate, SIR OFFLEY WAKEMAN pointed out that the Smithfield site was now gone. In any case, he said, it had always been the Council's policy to take the offices to the Column.

SCHOOL BUILDING, BIRMINGHAM

New Projects Sanctioned

FOURTEEN new primary and secondary schools are included in the 1960-62 Birmingham building programme sanctioned by the Minister of Education, Mr. Geoffrey Lloyd. In addition major extensions will be carried out at 16 other schools.

For 1960-61 the Minister agrees to 17 out of 30 proposed schemes and has transferred six more to the 1961-62 programme.

In the first year of the programme the largest single project will be a county secondary school costing £293,304 in the Nechells Green redevelopment area. Two other large projects will be a school in the Highgate redevelopment area and one in the Selly Oak-Harborne area. Each of the latter will cost £134,000.

Among the main extensions in the first year is a £122,000 scheme at King Edward's Grammar School, Aston.

In the second year a boys' grammar school will be built at Kings Norton costing £123,420 and a new bilateral technical modern school at Hall Green at a cost of £219,252.

DIRECT LABOUR, ATHERSTONE

Housing Committee's Opposition

ATHERSTONE RURAL COUNCIL'S housing committee has recommended that the Council should reject a proposal that future housing programmes should be carried out by direct labour.

'We would point out,' stated the committee's report, 'that the council has already erected over 1,400 houses since the end of the war and a further 89 houses and flats are in course of erection with another 200 approved by the Ministry of Housing as the 1959 programme.'

'The major portion of the housing needs has already been met and the erection of houses by direct labour would involve setting up a separate organisation and the purchase of plant and equipment. In these circumstances we do not propose that any action should be taken.'

BREACHES OF SAFETY REGULATIONS

Builders Fined

EDWARD BELL AND CO., LTD., builders and contractors, Sheffield, were fined £25 with £5 5s. 6d. costs at Renishaw on May 11 on five charges relating to houses erected by them in Moorside Close, Mosborough, near Sheffield.

They admitted having no guard rail on scaffolding on the site: failing to provide toe boards on the scaffolding; failing to fasten putlogs to ledges; using a gangway less than 17 inches wide; and using unsuitable material to support scaffolding.

Chairman Re-elected

The Federated Employers' Insurance Association Ltd. announce that at the recent board meeting Mr. Guy G. Lawrence and Mr. F. A. E. Evans were re-elected chairman and deputy chairman respectively.

NEWS IN BRIEF

Employment in Building

DURING March the number in civil employment is estimated to have increased by 1,000 to 22,798,000. There was an increase of 21,000 in the numbers employed in building and contracting, the figures for the end of that month being 1,470,000, according to Ministry of Labour and National Service statistics. At the end of March, 1958, the number so employed was 1,474,000.

Institute of Building Estimators

At the annual general meeting of the London Branch of the Institute of Building Estimators held at the Building Centre, the following officers were elected: Chairman, B. H. Brind; vice-chairman, L. J. Bradshaw; secretary, N. C. V. Jones, and treasurer, V. W F. Layton.

Paint Dispensing Machine

Olby's, builders' merchants of High-st., Bognor Regis, are possessors of what is said to be the first 'spectro-matic' paint dispensing machine in England. The machine is capable of offering customers 1,000 different colours and shades of paint matched to an exact choice. Up to 1,000 of the machines may be made in Britain under licence.

Rates of Interest Reduced

The Council of the Building Societies Association, at a meeting held on May 8, decided to recommend to members that the minimum rate of interest on new loans should be reduced to 5½ per cent by not later than July 1 next, and that consequential reductions should be made so soon thereafter as practicable in the rates payable by existing borrowers.

Dudley Street Redevelopment

Dudley Town Council may enlist the services of a firm of development consultants to study and advise on the redevelopment of the King-street area. After an approach from the consultants, a representative has been invited to attend the next meeting of the development committee for further discussion of the proposals put forward.

ADA Annual Meeting

The annual general meeting of the Aluminium Development Association was held on Friday, April 17, at 33, Grosvenor-street, London, W1, when the annual report was presented by the retiring President, Mr. S. E. Clotworthy. Mr. Rudolf Hahn was elected President of the Association for the ensuing period of 1959/60. Mr. Hahn represents, on the ADA Council, the Association of Light Alloy Refiners and Smelters Ltd. Mr. Clotworthy (managing director, Northern Aluminium Co., Ltd.) was elected vice-president of the association.

Prehistoric Discoveries

Excavations on the site of Harrison Gibsons' store at Ilford High-street, which was burnt out in March, have produced interesting prehistoric remains. Mr. J. Kirsop, foreman of Gilbert-Ash Ltd., the construction firm, found the tip of a large horn and a number of bone fragments among gravel deposits. Dr. Sutcliffe, of the Natural History Museum, Kensington, identified the horn as that of a wild ox from the inter-glacial period some 150,000 years ago. Mr. Donald Forrest, the architect, helped in the dating of the relics by noting the exact level at which the discoveries were made.

Approved Domestic Appliances

A list, No. 7 March, of tested and approved domestic gas appliances has been issued by the Gas Council, Murdoch-hse., 1 Grosvenor-place, SW1. Also issued, at the request of the Ministry of Power, is a list, No. 7 January, of recommended electrical appliances for local authority housing, compiled by the Electrical Development Association, 2 Savoy Hill, WC2. Copies of the latter are obtainable from the Association, price 2s. 6d.

EDA Office-Bearers

The Electrical Development Association announce that at its annual meeting Sir Josiah Eccles, CBE, MM, deputy chairman of the Electricity Council, was appointed President of the Association for the year 1959-60. Messrs. A. W. Ferguson, MC, CA, former chief administrative officer, Electricity Board of Northern Ireland, and Mr. J. Mould, OBE, former chairman, East Midlands Electricity Board, were appointed vice-presidents for the term 1959-1962. At the first meeting of the Association's newly constituted Council, Mr. T. E. Daniel, chairman of the North Western Electricity Board, was elected chairman for the year 1959-60, and Mr. D. B. Irving, chairman of the London Electricity Board, was elected vice-chairman.

Publicity for Plastering

Among committee and other reports presented to the monthly meeting of the Birmingham Association of Building Trades Employers, on May 12, was one from the Plasterers' section, which echoed the disquiet felt elsewhere in the country, about the possible problem created for plasterers in consequence of reduced work following current trends in techniques that eliminate the use of plaster. Members hold that the example of America, where a similar problem arose, and where measures were taken to establish large-scale publicity for plastering, is worth considering and that a national campaign to advertise the uses and applications of plastering, would have value for the trade. It was thought that the matter should particularly be brought to the attention of architects.

Oxfordshire Foremen's Association

On May 13, in the presence of over 50 general foremen from the city and county, the Oxfordshire Association of General Foremen and Clerks of Works was formed. The well-attended inaugural meeting was convened with the full support of the Oxfordshire Association of Building Trades Employers. In the chair was Mr. A. H. Stacey, president of the Berkshire Association, and the principal speaker was Mr. Alec Williams, secretary of the Buckinghamshire Association. Mr. Williams said it was his view that such an association in Oxfordshire was long overdue. The formation of this association brings to eight the number of associations of general foremen in the Southern Counties. After a resolution forming the association had been carried unanimously, a provisional committee of five was appointed to prepare an agenda for the first meeting, to be held on June 10. The secretary is Mr. J. T. H. Crouch, 19 Paradise-street, Oxford.

'Building Research in Canada'

A progress report of the Division of Building Research, National Research Council, Ottawa, has been issued under the title 'Building Research in Canada.' This semi-annual publication can be obtained from the National Research Council, Ottawa.

'Accept Lowest Tender' Council Told

Louth Town Council were informed at their meeting on April 21 that the Ministry of Housing and Local Government had stated that they must accept the lowest tender for the building of 20 houses in High Holme-road.

The Council had intended to accept the second lowest tender of £24,054 by Ellis, Thompson & Co. Ltd., of Louth, and a deputation from the Council recently visited the Ministry about this proposal. They had intended to accept this rather than the lowest tender of £23,995 by Taylor & Coulbeck Ltd., of Cleethorpes, because it was considered more local labour would be employed by the Louth concern.

At the meeting of the Council on April 21 it was decided to accept the tender of Taylor & Coulbeck.

More Council Houses for old People

Opening a group of ten bungalows built as almshouses for old people at Brympton House, Harnham, Salisbury, on Thursday, May 7, Mr. Henry Brooke, Minister of Housing and Local Government, said that he hoped to see the proportion of new houses and flats built by the local authorities to help old people reach 25 per cent before long.

The Minister said that in the field of building for old people a wide variety of experiment should be undertaken, so that new methods could be developed to provide for the needs of elderly people.

Woodwork Federation AGM

At the annual general meeting of the Joinery and Woodwork Employers' Federation held at the Connaught Rooms on April 22 the chairman, Mr. Maurice Van Westerborg, was re-elected chairman. Mr. K. G. Cook in proposing him said that the Federation were lucky to have their affairs in such capable hands and for the time, wisdom and understanding which Mr. Maurice Van Westerborg had given to the Federation. Mr. B. Pratten and Mr. W. Hide were elected vice-chairmen. Mr. S. J. Bassett was re-elected Hon. Treasurer. The following were elected to the executive committee: Messrs. W. E. Adams, JP, J. B. Austin, JP, E. A. Busby, J. G. Cook, C. H. Cuttriss, ACIS, J. Duxbury, S. K. Finch, C. Jamieson Harvey, MBE, C. W. T. Pochin, F. W. Uttley, P. Wildey. The Chairman, in presenting his report, referred to apprenticeship, and said that there were many pressures at large operating to discourage youths becoming apprenticed. The employer could help to counteract some of these pressures by his personal interest in the apprentice.

Architects: Howard V. Lobb, C.B.E., F.R.I.B.A., A.I.Struct. E. John Ratcliff, O.B.E., F.R.I.B.A., A.M.T.P.I. *Display Designer:* James Gardner, O.B.E., R.D.I.

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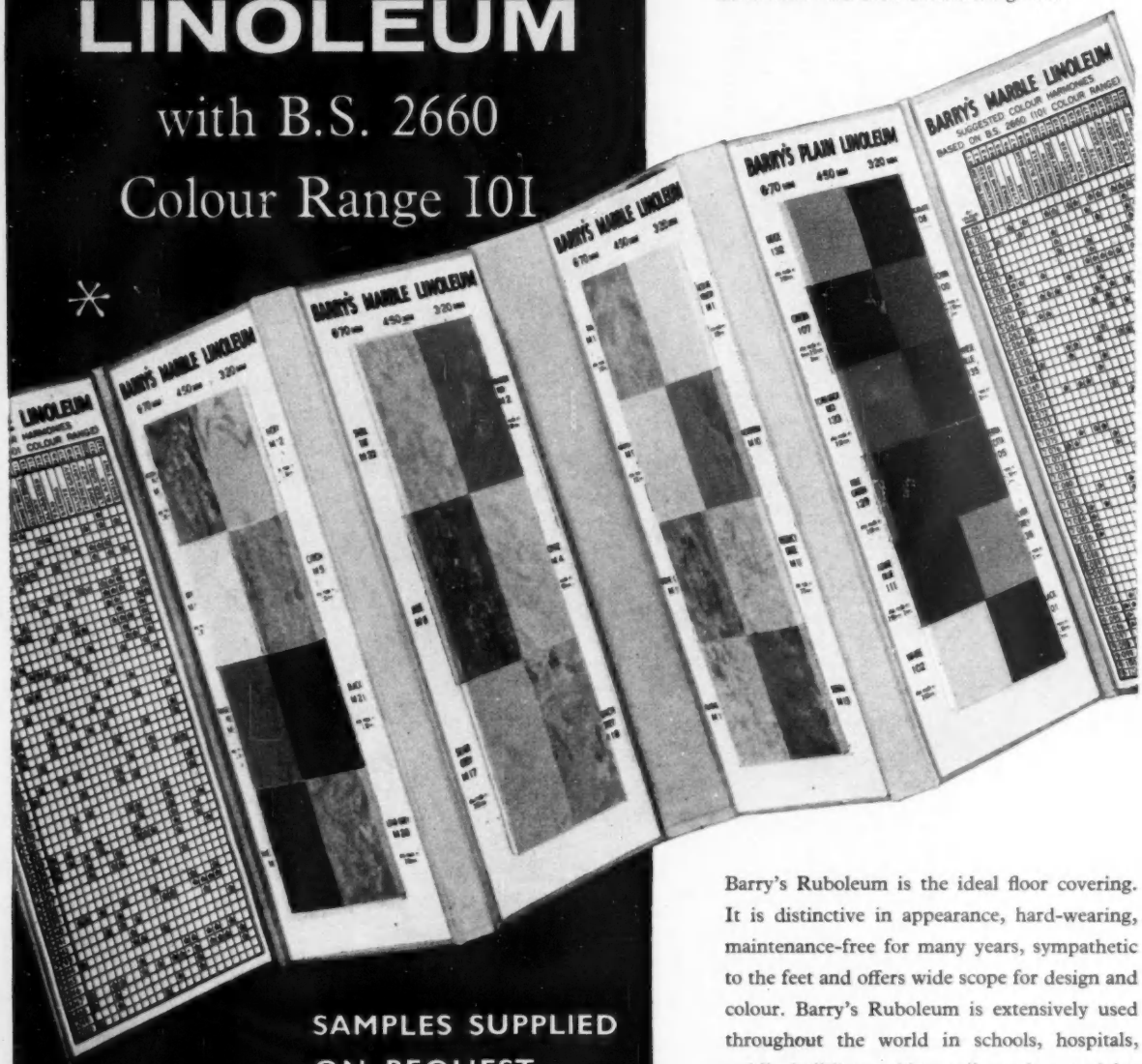

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A.P.17

TECHNICAL REVIEW

This Review of plant, equipment and materials—in most cases new or with new features—is intended to give brief details only of the products mentioned. Notices are based on data supplied by the manufacturers. Additional information and prices can be obtained either direct or by using the prepaid Readers' Service form which appears on page 67 of this issue. The form can be used for more than one inquiry.

AIR CONDITIONING

'TEMKON' ROOM AIR CONDITIONER: Designed for normal room or ducted installation, cooling only or cooling and heat pump. The single fan motor is very easily controlled and maintained. The condensate tray is plastic and has a centre drain. The unit is easily accessible through the lifting lid and is constructed in stove enamelled, zinc-coated steel. The rear compartment is internally coated with bitumen and the exposed grill is anodised aluminium, stove enamelled. The unit is 30 in. deep, 30¾ in. wide, 17¾ in. high and weighs about 250 lbs. (Illustration.)

Temperature Ltd., Burlington-rd., SW6.

CONTRACTORS' PLANT

POLYTHENE CANOPY: The largest plastic-covered structure to be erected in this country has been used to enclose a power station control room under construction at West Hartlepool, Co. Durham. The structure had a capacity of 400,000 cu. ft. and it was calculated that it cut construction time from 6 to 3 months. The framework holding the plastic canopy was standard scaffolding with 4 in. × 2 in. timbers on the uprights. The plastic sheet was fixed by nailing laths at 2 ft. 10 in. centres over the timber. (Illustration.)

British Visqueen Ltd., Stevenage, Herts.

THE 'HANDYCAN': A 1-gallon container for storing and transporting liquids, blow-moulded in 'Rigidex' high-density polyethylene. It is rigid, virtually unbreakable, impervious to water, chemicals and oil, completely resistant to corrosion, lightweight, compact and provided with a threaded pouring spout which press-fits into the handle when not in use. The threaded filler cap is attached to the container. Available in two colours—white and yellow. Not suitable for petrol. (Illustration.)

British Resin Products Ltd., Devonshire House, Piccadilly, W1.

HEATING

ELECTRICAL FLOOR HEATING COSTS: A number of housing projects in Scotland have been fitted with electrical underfloor heating and figures are now available giving running costs for a number of these systems which have been in operation for a year or more. These are all based on three-apartment flats which are all electric so that domestic hot water and cooking are also included in the cost of the electricity. The weekly averages were Toryglen, Glasgow—14s. 3d.; Valley Gardens, Kirkcaldy—14s. 5d.; West Pilton, Edinburgh—15s.; Inverness—19s. 4d. (The Inverness flats are supplied at normal tariff, the others at off-peak tariffs.) These figures are considered low and have been achieved by co-operation between the tenants and advisers from the South of Scotland Electricity Board who paid frequent visits to the flats during the first season's heating in order to guide tenants in the proper use of the equipment.

British Electrical Development Association, 2 Savoy-hill, WC2.

SCAFFOLDING

ADJUSTABLE STEEL TRESTLES: A new range in four sizes providing for platform heights from 1 ft. 7 in. to 8 ft. in adjustment of 3 inches. Available in three widths to support 3, 4 or 5-board staging. All have holding legs and are in steel welded construction with no loose parts. The pin is attached to flexible steel wire instead of the usual chain and ring. Available for hire or sale.

Scaffolding (Great Britain) Ltd., Mitcham, Surrey.

THE 'GOSAFE' SCAFFOLD BOARD: An aluminium-reinforced board that is suitable for all scaffolding purposes, particularly for work involving frequent handling. Constructed of five longitudinal machined timbers, 1¾ in. × 1¾ in. and four aluminium strips tied transversely by bolts at 15 in. centres bushed with aluminium tubing which acts as a bearing and stop. The pattern of aluminium strips, bushes and bolts forms a complete grid of reinforcement independent of the strength of the timber. All nut heads are rounded for comfortable handling. The aluminium strips and tubing are supplied by Northern Aluminium Co. Ltd. Available in various lengths, from 7 ft. to 15 ft. 9 in. in increments of 15 in. and up to 18 ft. 3 in. to special order.

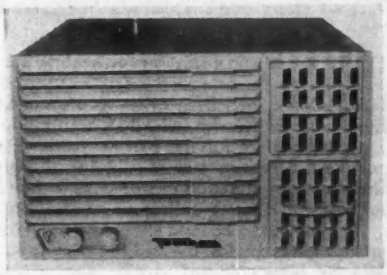
Gosafe Board Ltd., 12 Collegiate-crescent, Sheffield 10.

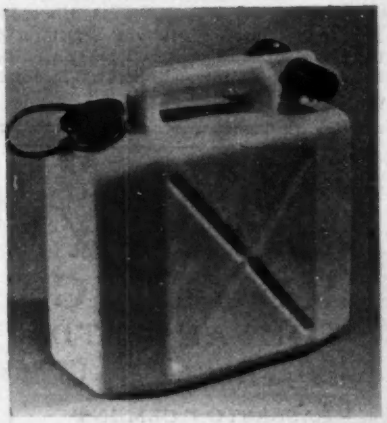
TIMBER

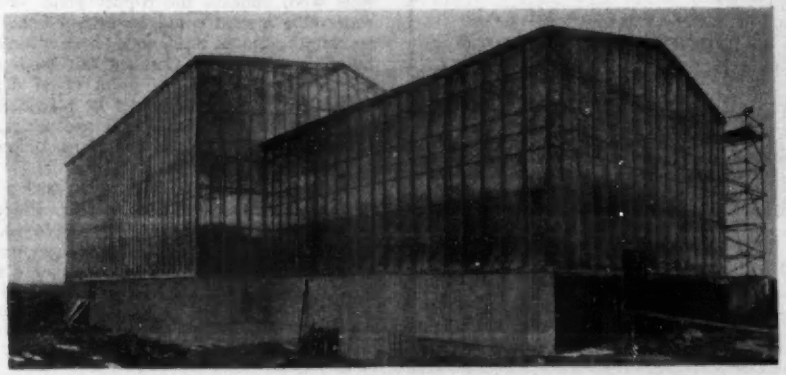
'SOLITEX' WOODWORM TREATMENT: A new method which fills in and completely seals the woodworm holes and fumigates the timbers internally in one operation. It is a powder composed of an inorganic plastic containing a micronised volatile insecticide. The powder is mixed with water into a paste and then wiped over the woodwork where holes have appeared. The paste hardens in a short time sealing the holes. Once hard, it exudes insecticide fumes which are lethal to any beetles which may still be in the borings, and to their larvæ and pupæ. This process of internal fumigation of the wood continues for many months. The product is harmless to humans and household pets and it does not smell.

With the filler-fumigation powder is issued another powder which is mixed with water into a liquid solution for brushing or sponging on to all woodwork. This solution leaves a microscopic film of insecticide which kills any woodworm beetle eggs which may have been laid and leaves the woodwork impervious to attack for a long period.

Ashe Laboratories, Leatherhead, Surrey.







above: A 'Temkon' room air conditioning unit. right: The 'Handycan' in polythene carries 1 gallon of liquid. below: The canopy used to protect the complete control room under construction at a Durham power station is constructed from standard scaffolding, timber and polythene sheeting.

OVERSEAS BUILDING

From Our Own Correspondents

CANADA.—Canadian National Railways plan to construct a $90m. by-pass line and marshalling yards, outside Metropolitan Toronto. The yard will cover more than 1,200 acres and contain 500 miles of lines. . . . Toronto's Board of Control has decided to call for private offers for the development of the south side of Queen-street, opposite the new City Hall. This project will entail the expenditure of many million dollars for construction and demolition. An agreement has been reached between the Nova Scotia Government and the Nova Scotia Pulp Ltd. for the construction of a $40m. pulp mill. . . . A $375,000 home for the aged is to be built at Pentecostal, Ontario.

HAITI.—A five-year plan covering irrigation, drainage, land-reclamation, re-afforestation, road-building and other public works, health and education, is announced. An investment of about £8m. will be required.

IRAQ.—The fifth technical section of the Ministry of Development have completed a five-year housing plan, the cost of which is estimated at £130m. The plan includes the provision of houses for 5,000 mud-hut dwellers in Baghdad. The Development Board have allocated £150,000 for the construction of a modern agricultural village near Baghdad as a model for others to be built in other Liwas. The Development Board have decided to let tenders for the construction of 376 houses to the south of Mosul. The tender will include the laying of water and power supplies and the construction of roads and a sewage system.

MALAYA. — The Central Electricity Board awarded the contract for construction of the civil engineering works in the Cameron Highlands hydro-electric scheme to the German firm of Hochtief. The successful tender was for M$47.7m.

SOUTH AFRICA (UNION).—Generally speaking, conditions in the building industry remain subdued with activity possibly below 1958 level, reports Barclays Bank DCO. A report from *Durban* states, for instance, that during February plans passed were worth £304,230, compared with £528,665 in the corresponding month of last year. In *East London* 37 plans were passed amounting to £200,325, representing a decline of £48,000 by comparison with February, 1958, figures; the 1959 total so far is now running at a level almost 30 per cent. below that of a year before. In *Cape Town a* £1¼ million expansion plan is reported to have been approved by the Cape Provincial Administration, involving various new blocks at the Groote Schuur Hospital.

SYRIA.—Ministry of Communications has issued a five-year plan for road and bridge construction to cost £Syr.50m. . . . Plans for the construction of grain storage depots have been announced. It is proposed to construct depots with a capacity of 400,000 tons by 1965 at total cost of £Syr.60m. in the Jezira, Aleppo, Homs, Damascus and Hourna districts. . . . A programme of rural development has been proposed by the Minister of Agrarian Reform. It includes the construction of new villages and the financing of co-operative societies to build houses. Cost is roughly £Syr.300-400m. . . . A number of new projects are announced—a spinning, weaving and dyeing mill at Homs to cost £Syr.13m.; a flour mill at Deir Es Zor to cost £Syr.2m.; factories for the milk industry at Aleppo and Damascus to cost £Syr.4m.; two battery factories to cost £Syr.400,000 each; a radio assembly plant to cost £Syr.300,000; a wool spinning plant to cost £Syr.4.8m.; a carpet factory at Damascus to cost £Syr.1.25m. Extensions to spinning mills, the establishment of a chain factory and fruit canning factories are also reported to have been authorised. . . . According to an official statement the Government has decided to build a refinery at Karatchuk and pipelines between Homs and Damascus and Homs and Aleppo, to facilitate the distribution of oil products from the refinery at Homs.

WEST INDIES.—Barclays Bank DCO reports from Jamaica that negotiations have been completed for the building in Kingston of a £1,125,000 convention hotel of 200 double rooms, a hall capable of seating 1,000 persons, 3 dining areas and a swimming pool. The hotel will be operated by the Sheraton Hotel Corporation. Work will commence in June and construction will take eighteen months to complete. . . . The Bank also reports that a syndicate of American, Bermudan and Jamaican investors are building a new hotel in the Montego Bay area. This will consist of nine two-storey cottages and will be ready for next winter's season.

Contractors' Register, Chile

The General Register of Contractors kept by the Chilean Dirección de Obras Portuarias (Port Works Authority) is now open for new registrations, or renewals. Present registrations will be cancelled on June 30. Registrants may apply to the Secretary of the Constructions Department, Dirección de Obras Portuarias, Avenida Bulnes 79, sexto piso, No. 64, Santiago, Chile.

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'BUILDING IN NORTHERN CANADA'

New Publication

A NEW TECHNICAL PAPER just published by the Division of Building Research of the National Research Council is entitled 'Building in Northern Canada.' It is a 50-page mimeographed document and has been published in partial answer to the many inquiries which the Division has been receiving about the special features of building in the Canadian North.

The report points out that, contrary to popular belief, logistics and economics are the chief determinants of northern building. Popular misconceptions about climate of the North are answered by six special climatic charts which show that the duration of winter rather than its intensity differentiates the climate of the North from that of the more settled parts of Canada. One chart also shows another important climatic factor that is not generally recognised—the increasing number of days without daylight as one approaches the far northern extremes of the country.

A large part of the paper is concerned with permafrost and its effects upon building in the North. There is an outline of the measures which must be taken to preserve permafrost and to preserve the vegetal cover which protects it near the surface during the summer months. Another section deals with the necessary characteristics of superstructures for building in the North, with reference to the special place of prefabrication in northern building.

SUNRAY HEATING SYSTEM

Use of Heat Accumulators Suggested

By J. Grindrod

THE use of sun radiation for heating purposes is possible in Sweden, says architect Gunnar Pleijel, auxiliary professor at Stockholm University, who has been studying this problem for the past 30 years. He says that there is no lack of sunshine, though the necessary prerequisite would be to build houses with sun-ray collectors on the roof.

The roofing to be used should be ordinary window-glass plates covered on the lower side by black-coloured copper plates, Mr. Pleijel says. When the rays pass through the glass they will heat the copper plate, and only a fraction of the heat obtained will be reflected back through the glass.

To distribute the heat all over the house, two different methods might be used. An air-conditioning system could be obtained by causing the air to pass through a layer of steel wool beneath the copper plate, or a water-tube system could be installed there, leading the heated water to a 'heat accumulator' consisting of Glauber salt (sodium sulphate) with a melting point of 31 deg. C, or even of coarse gravel or macadam. According to Mr. Pleijel, this accumulator would be able to remain heated for a long period of the winter season.

Last year, Sweden had to import fuel oils to a value of about $185m., Mr. Pleijel says. During the same period it would have been possible to heat an average quantity of 8·9 litres per square metre per hour in the country (about 2 gallons per 10 sq. ft.) from 20 to 100 C by using the heat of the sun.

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NO CORRODED BOLTS
NO SHEARING

Saves Time and Labour

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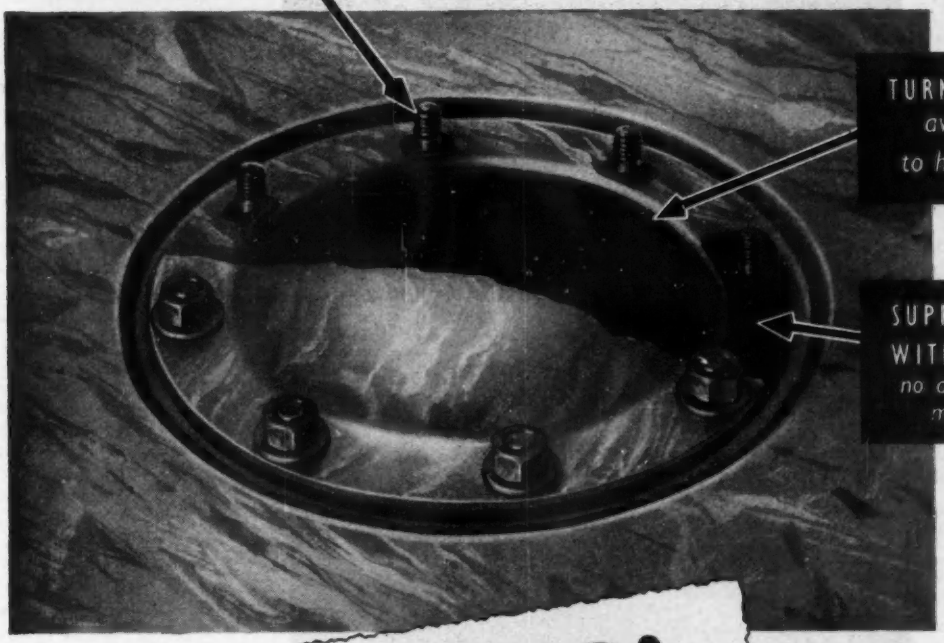

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avoiding injury to hands and arms

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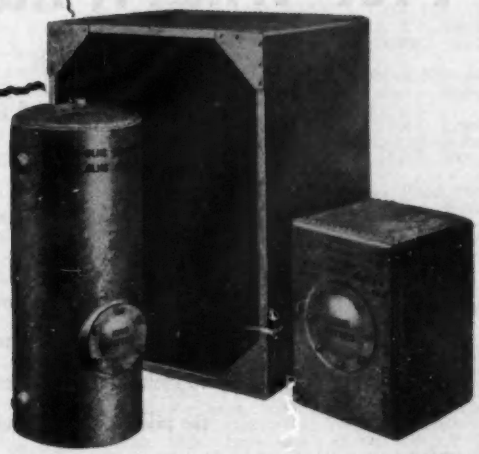

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The SCOTTISH BUILDER

RIAS Prizes and Studentships

THE awards in the competitions promoted annually by the Royal Incorporation of Architects in Scotland are as follows:—

Rowand Anderson Studentship (£125 and silver medal)—David Hird, Scott Sutherland School of Architecture, Aberdeen.

The Rutland Prize (£60)—Ian M. Will, Glasgow School of Architecture.

The Incorporation Prize (£50)—A. Scott Kennedy, Scott Sutherland School of Architecture, Aberdeen.

Hon. mentioned—J. D. Mackinnon, Scott Sutherland School of Architecture, Aberdeen and Mark McClean, Dundee College of Art.

Factories for Lanarkshire

IT was disclosed recently by Mr. John Rodgers, Parliamentary Secretary to the Board of Trade, that two new factories, which will eventually provide work for about 600 people, are to be built at the Greenhill estate in Coatbridge, Lanarkshire.

Consideration is being given to the building of a third, smaller, factory at Kirkwood, Lanarkshire.

New Lord Dean of Guild

MR. GEORGE LIONEL ORCHARD has been elected the new Lord Dean of Guild at the annual meeting on Monday of the Incorporation of the Brethren of the Guildry of the City of Edinburgh. He succeeds the retiring Lord Dean, Mr. David A. Adamson, who presided at the court for three years.

Like Mr. Adamson, Mr. Orchard is a chartered surveyor by profession. He lives at Linwood, Mid Calder, and is governing director of Colin Macandrew & Partners Ltd., building contractors.

An ex-president of the Scottish National Building Trades Federation (Employers) and the Edinburgh and District Master Builders' Association, the Lord Dean of Guild is chairman of the Scottish National Joint Council for the Building Industry Station, Thortonhall.

NEW BUILDINGS

Aberdeen.—Corpn. invite tenders for 40 flats at Ashgrove. All trades. Applications to City A. Tenders by June 8.

Cumbernauld Development Corpn.—Tenders invited for first phase of Dunns Wood sewage purification works, comprising:—Four circular tanks, 60 and 75ft. dia.; six aeration tanks, 30ft. sq.; two pumphouses; comminutor chambers; detritus channels; ancillary pipework; chambers, and road and site works. Applications to Gen. Mgr. by May 26.

Dunfermline.—Dean of Guild Court approved plans submitted by TC for 40 old people's houses at Aberdour-rd. housing scheme. Est. cost £52,000.

Dunfermline.—Plans approved by Dean of Guild Court for TC to build six blocks of temporary classrooms at Dunfermline high sch. Est. cost £27,000.

Inverness-shire.—EC to build school at Inverness for mentally handicapped children.

SCOTTISH BUILDING TRADE WAGES

FOLLOWING are rates of wages authorised by the Scottish National Joint Council as from February 2, 1959. They apply to the whole of Scotland, including the islands of Orkney, Shetland, etc.

Grade A: Craftsmen, 4s. 9d.; Labourers, 4s. 2½d.

For apprentices, the rates are:

Year	Percentage of Craftsman's rate	For week of 44 hours s. d.
1st	25	52 3
2nd	33⅓	69 8
3rd	50	104 6
4th	66⅔	139 4
5th	75	156 9

For female labour, the rates are:

	s. d.
Operatives on craft operations (at end of probationary period)	4 2½
Operatives on labouring operations (at end of probationary period)	3 8½

AIR POLLUTION

Isolating the Sources

A LECTURE on Air Pollution was given by Dr. R. S. Scorer of the Imperial College, at the British Council cinema in Hanover-street, on May 14.

Dr. Scorer emphasised that the nature, production and effects of air pollution were such that they should be seriously considered by the engineer, the scientist and the doctor. A more explicit understanding of the sources and the kinds of damage done by air pollution were necessary before remedies could be designed to eliminate them.

Using filmstrips to illustrate his lecture, Dr. Scorer dicussed the many sources of pollution and the various forms they take. The result was a shocking indictment of the domestic fire and the factory building. The major sources were coal burning power stations, oil refineries, cement works, steel works, railways, road vehicles and domestic fires. The effects of pollution manifested themselves, he said, in lung diseases, errosion and blackening of stonework and the destruction of vegetation.

Dr. Scorer went on to say that houses and trains emit about six times as much obnoxious smoke as modern industry or a power station. Illustrating this, he said that one ton of coal burned in a typical home would produce two thousand times the amount of damage by its pollution as one ton burned in a typical power station.

Concern at Radioactivity

Referring to air pollution of the future, Dr. Scorer expressed deep concern about the effects of radioactivity, although nuclear power stations, under ordinary working conditions, are not, he said, a source of dangerous radioactive pollution.

In conclusion, Dr. Scorer expressed the hope that those concerned would not attempt indiscriminate elimination of the sources of pollution, but would first study local conditions, both climatic and geographical, with a view to ridding the community of the most serious forms. This is especially important because some of the most dangerous sources are not always immediately apparent, since the smoke, vapours or gases emitted are invisible and it is only their effect that is noticeable.

NEW COMPANIES

W. E. B. Construction, Ltd. (621348.) Regd. Feb. 19, 1959. 22/4 Ely-pl., EC1. Civil engrs., pub. wks contrs., etc. Nom. cap.: £10,000. Dir.: Lt.-Gen. Whitcombe.

Bert Andrews & Son, Ltd. (621355.) Regd. Feb. 19, 1959. 3 Bowling Green-terr., Worcester. Bldrs. Nom. cap.: £6,000. Permt. dir.: A. Andrews.

A. R. Blick & Son, Ltd. (621420.) Regd. Feb. 20, 1959. Stonehouse, Glos. Bldrs, etc. Nom. cap.: £6,000. Permt. dir.: L. R. J. Blick.

Winard Construction Co., Ltd. (621452.) Regd. Feb. 20, 1959. 4 Moorfield Grove, Pudsey, Yorks. Bldrs., contrs., etc. Nom. cap.: £1,000. Dir.: S. W. Winter.

Leech and Tolliday, Ltd. (621467.) Regd. Feb. 20, 1959. 5 High-st., Romford, Essex. Bldrs. and contrs. Nom. cap.: £200. Dir.: J. W. Leech.

R. J. Barwick & Sons, Ltd. (621477.) Regd. Feb. 20, 1959. Market-st., Dover. Bldrs. and contrs. Nom. cap.: £30,000. Dir.: R. R. O. Barwick.

Bailey and Russell, Ltd. (621486.) Regd. Feb. 20, 1959. 183a Field End-rd., Eastcote, Pinner. Bldrs., etc. Nom. cap.: £100. Dir.: R. Bailey.

A. Foster (Builder), Ltd. (621504.) Regd. Feb. 20, 1959. 6 Ranelagh-rd., Weymouth. Nom. cap.: £1,000. Dir.: A. Foster.

Harders Building Co., Ltd. (621532.) Regd. Feb. 23, 1959. 92 Portland-pl., W1. Nom. cap.: £1,000. Dir.: H. A. Burnet.

Mitchell & Drew, Ltd. (621592.) Regd. Feb. 23, 1959. 55 Hyde-rd., Paignton. Bldrs. and contrs. Nom. cap.: £100. Dir.: D. A. Mitchell.

Abbey Works, Ltd. (621605.) Regd. Feb. 23, 1959. Abbey-gdns., Penally, nr. Tenby. Pembs. Genl. engrs. and engr. contrs. Nom. cap.: £1,000. Permt. dir.: J. P. G. Webb.

Curtomo Building Co., Ltd. (621652.) Regd. Feb. 24, 1959. Nom. cap.: £100. Sub.: J. Herbert (co. dir.) 156 Strand, WC2.

The following companies have been registered with details similar to Curtomo Building Co., Ltd.:—

Franksal Property Co., Ltd. (621656.)
Shelltwix Investments, Ltd. (621675.)
Townket, Ltd. (621679.)
Fontaberry Property Co., Ltd. (621689.)

P. A. Hopkins, Ltd. (621672.) Regd. Feb. 24, 1959. 8 Tavistock-st., Leamington Spa. Bldrs., contrs. Nom. cap.: £5,000. Dir.: R. L. Hopkins.

'Westco' (Horndean) Construction Co., Ltd. (631681.) Regd. Feb. 24, 1959. 79 Portsmouth-rd., Horndean, Hants. Bldrs. Nom. cap.: £150. Permt. dir.: Robt. Bason.

Western & Harper, Ltd. (621718.) Regd. Feb. 24, 1959. Bldrs., contrs. Nom. cap.: £4,000. Dir.: R. W. Western, 2b Aspin-la., Knaresborough.

J. Hardwidge, Ltd. (621723.) Regd. Feb. 24, 1959. 19 Whiteladies-rd., Bristol, 8. Genl. contrs., bldrs, etc. Nom. cap.: £9,000. Dir.: W. T. Hardwidge (permt.)

D. G. Hassett, Ltd. (621706.) Regd. Feb. 24, 1959. 22 Lowfield-st., Dartford, Kent. Bldrs. Nom. cap.: £500. Dir.: D. G. Hassett.

A. Smith (Plasterers), Ltd. (621748.) Regd. Feb. 25, 1959. 15 Whalley-ave., Penkull, Stoke-on-Trent. Bldr., etc. Nom. cap.: £5,000. Dir.: A. Smith.

C. A. Rose & Son, Ltd. (621753.) Regd. Feb. 25, 1959. 21 Radcliffe-ave., NW10. Bldrs., contrs. Nom. cap.: £1,000. Dir.: C. A. Rose.

T. H. Hopewell, Ltd. (621778.) Regd. Feb. 25, 1959. 107 Sherwood-st., Nottingham. Bldrs. Nom. cap.: £100. Dir. T. H. Hopewell.

W. & D. Edge, Ltd. (621780.) Regd. Feb. 25, 1959. 67 Colebrook-rd., Shirley, Solihull, Warwicks. Bldrs. and contrs., etc. Nom. cap.: £1,000. Dir.: G. A. Wagstaff.

J. T. Mason, Ltd. (621833.) Regd. Feb. 26, 1959. 105 Albion-st., Leeds. Bldg. contrs. Nom. cap.: £2,000. Permt. dir.: J. T. Mason.

J. E. Robinson, Ltd. (621866.) Regd. Feb. 26, 1959. 10 Allerton-rd., Trentham, Stoke-on-Trent. Bldr. Nom. cap.: £7,000. Dir.: J. E. Robinson.

Cropper & Gillespie, Ltd. (621884.) Regd. Feb. 26, 1959. 79, Norwood-dr., Morecambe and Heysham. Bldrs. Nom. cap.: £2,000. Permt. dir.: W. W. Cropper.

R. E. Martin, Ltd. (621963.) Regd. Feb. 27, 1959. 203 Uxbridge-rd., W13. Bldrs. and contrs. Nom. cap.: £100. Dir.: R. E. Martin.

The Builder

FUTURE CONSTRUCTION

Full details of Public Appointments open will be found in the Advertisement pages of this and previous issues.

CONTRACTS OPEN

For some contracts still open but not included in this list, see previous issues. Those with an asterisk are advertised in this number. The latest date for the receipt of tenders or applications appears above each paragraph. A dagger (†) against the entry indicates that applications must be received by this date.

BUILDING

MAY 25

***†Plymouth City C.**—Nine flats at Cornwall-st., Devonport. City A. Dep. £3 3s.

MAY 27

***†Drayton RDC.**—Four houses and six bungalows at Cheswardine. Dep. £2 2s.

MAY 29

***†Blackpool CBC.**—Park sch., Whitegate-dr., Blackpool. A: Grenfell Baines & Hargreaves (F/A), 58 Topping-st., Blackpool. Tenders by June 22.

***Braintree and Bocking UDC.**—Fixed price tenders for four flats and six bungalows, with outbuildings, screen walls and ancillary works. E&S. Dep. £2 2s.

***Kidsgrove UDC.**—50 houses at Galleys Bank estate. E&S. Dep. £2 2s.

***†Surrey CC.**—Staff dining room and kitchen at County Hall, Kingston-upon-Thames. County A.

***†Swindon BC.**—70 dwellings and 15 garages, Park North neighbourhood. Boro' A.

MAY 30

***†Essex CC.**—Firm price tenders for three demountable classrooms at Rayleigh county sec. sch. County A.

***†Essex CC.**—(1) Firm price tenders for:—(a) two police houses with garage at Colchester; (b) one police house at Halstead; (c) two police houses at Dovercourt, and (d) two police houses at Wickford. (2) Ten police houses at Clacton. County A.

JUNE 1

***†Chesham UDC.**—24 flats at Deansway. A: E. S. North (F), Norfolk-hse., Station-rd. Dep. £2 2s. Tenders by June 24.

Ilkeston BC.—31 dwellings at Kirk Hallam housing estate (North Side). Boro' S. Dep. £2 2s.

***Wallasey CBC.**—42 maisonettes and six garages at Church-st. Boro' A.

JUNE 2

***†Tottenham BC.**—38 maisonettes at West Green-rd./Milton-rd., Willow Walk. Boro' E. Dep. £2 2s.

JUNE 3

***†Cheltenham BC.**—20 houses and 18 flats, with outbuildings and external services, at Tewkesbury-rd./Swindon-rd. re-development. Boro' E. Dep. £3 3s.

***†Durham CC.**—(a) Additions and alterations to provide kitchen, small hall, and assembly hall/gymnasium at Pelton county and mod. schools, and (b) adaptation of former Winlaton CE sch. to form mod. sch. County A.

***Farnham UDC.**—Two houses at Brightwells. A: Messrs. Maxwell Aylwin (F/A), 26 West-st., Farnham, Surrey. Dep. £2.

***†Willenhall UDC.**—(a) 34 dwellings, and (b) 48 dwellings at Wood-la. A to Council. Dep. £3 3s. each contract.

JUNE 4

Down, NI, CEC.—Erection of Further Education Centre at Annalong. Roe, Stevenson & Sons, 33 College-gdns., Belfast. Dep. £3 3s.

JUNE 5

***†East Suffolk CC.**—Alterations and additions to 'Cloncurry,' Felixstowe. County A. Tenders by July 3.

***†East Suffolk CC.**—Second instalment of Lowestoft College for Further Education. County A. Tenders by July 9.

***†North Staffs. Technical College.**—Erection of College of Physics and Chemistry. City A. Stoke-on-Trent. Tenders by July 6.

JUNE 8

***Dartford BC.**—Alterations and extensions to public conveniences at Market-st. Boro' S. Dep. £2 2s.

***†Isle of Wight CC.**—Fixed price tenders for alterations and extensions at Newport Priory sec. girls' sch., Nodehill, Newport. County A. Dep. £3 3s. Tenders by July 13.

JUNE 9

***Reading CBC.**—Firm price tenders for mezzanine floor, with ancillary works, at Museum and Art Gallery, Blagrave-st. Boro' A.

JUNE 11

***Gunnersbury Park Joint Com.**—Internal alterations at the Farm dressing rooms. Boro' E.

***Wallasey CBC.**—36 flats and maisonettes at Ashville-rd. Boro' A.

JUNE 12

***Canterbury City C.**—Fixed price tenders for: (a) 58 old people's units and five houses at Union-st., New Ruttington-la., and (b) 26 old people's units and three houses at Monastery-st. City A. Dep. £2 2s.

JUNE 15

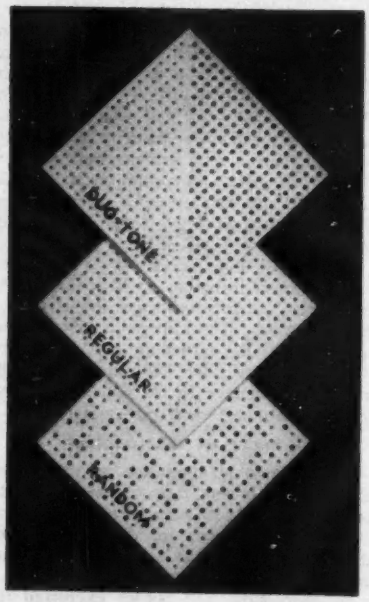
***†Isle of Ely CC.**—Firm price tenders for new junior occupation centre at Money Bank, Wisbech. County A. Dep. £2 2s. Tenders by July 20.

JUNE 19

***Reading CBC.**—Firm price tenders for new cloakroom, extension to kitchen and minor alterations at Westwood girls' sch. Boro' A. £2 2s.

JUNE 20

***Warwick BC.**—42 dwellings, warden's bungalow and community hall at Saltisford Common development. Boro' E&S. Dep. £2 2s.



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JUNE 23

***Ilford BC.**—Four cottages at Aldborough-hse., Hatch Farm. Boro' E. Dep. £2 2s.

JULY 2

***Great Yarmouth CBC.**—Fixed price tenders for hostels for 60 aged and blind persons, Magdalen college estate, Gorleston. Boro' E. Dep. £2 2s.

JULY 6

***Croydon CBC.**—Extension to ante-natal clinic, Lodge-rd. Boro' E.

***East Riding of Yorkshire CC.**—County sec. sch. at Filey. County A. Dep. £2.

JULY 8

***Whiston RDC.**—Fixed price tenders for 302 dwellings, Sugar-la., Knowsley, nr. Liverpool. E&S. Dep. £2 2s.

NO DATE

***Worksop Co-operative Society Ltd.**—Superstructure of shop premises, storage and lavatory block at Watson-rd. site. A: Messrs. J. Haslam & Sons, Ryton-chbrs., Newcastle-ave., Worksop, Notts. Dep. £5 5s.

SERVICES, PAINTING, MATERIALS, ETC.

MAY 29

***†Swansea CBC.**—(a) Electrical installation, and (b) heating, hot and cold water, gas and engineering services, to new block at Swansea Technical College. Boro' A. Dep. £5 each contract.

JUNE 1

Plymouth City C.—Concrete manholes, concrete and salt glazed stoneware pipes and fittings. City E&S.

JUNE 3

***†Durham CC.**—Nominated sub-contractors for:—(a) hardwood floors; (b) rubber, lino and PVC flooring; (c) office partitioning; (d) felt and copper roofing; (e) laboratory furniture and architectural joinery; (f) box section aluminium windows and curtain walling; (g) architectural metalwork and sheet metal gates; (h) mosaic work; (i) lifting beams and tackle, and (j) single stack plumbing. Nominated suppliers for:—(a) sanitary ware; (b) roof lights; (c) flush doors; (d) precast mosaic panels; (e) exposed aggregated panels; (f) gates and railings, and (g) ironmongery. County A.

JUNE 5

***Esher UDC.**—External repainting of 28 houses and 16 bungalows at Tartar Hill estate, Cobham. E&S. Dep. £1 1s.

JUNE 8

***†East Suffolk CC.**—Site works, foundations, services, etc., in connection with prefabricated timber building for Capel St. Mary VCP sch. County A. Tenders by June 30.

JUNE 12

***Tyldesley UDC.**—Firm price tenders for external painting of 40 flats and 22 houses at Shakerley estate and 38 houses at Sale-la., estate. Housing Superintendent. Dep. £2 2s.

JUNE 23

***Croydon CBC.**—(a) Improvements to sanitary accommodation at Beulah prim. sch., Beulah-rd., and (b) at Norbury Manor prim. sch., Stanford-rd. Ch. Education Officer. Dep. £1 each contract.

***Hastings CBC.**—Fixed price tenders for site clearance work at College of Further Education. Boro' E. Dep. £2 2s.

MUNICIPAL AND CIVIL ENGINEERING WORKS, ETC.

MAY 30

†Amersham RDC.—6¼ miles of gravity sewer up to 9in. dia., manholes, etc.—Holmer Green drainage. E&S.

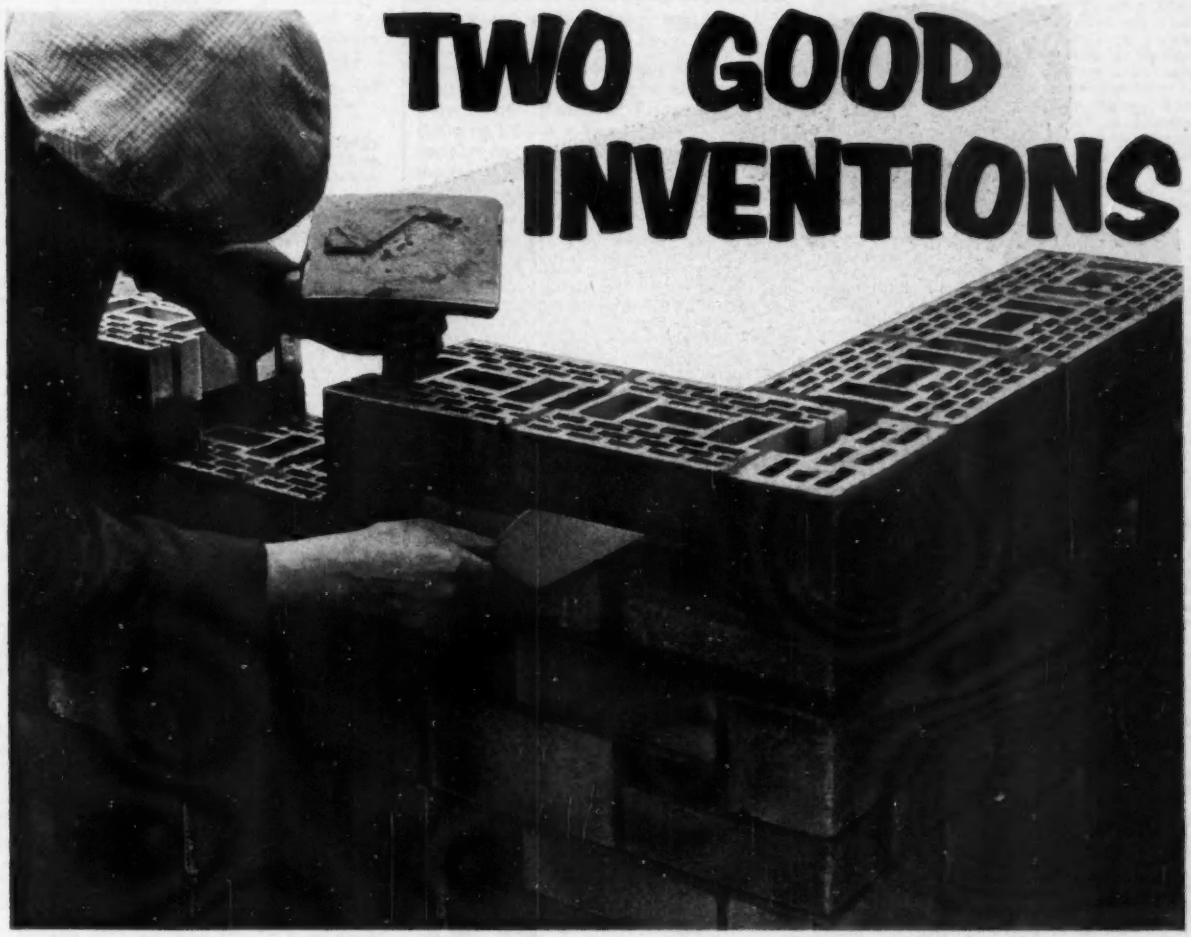
JUNE 1

†Coventry City C.—Inner ring road. City E&S.

JUNE 3

Aylesbury BC.—Fixed price tenders for 718 lin. yd. of 21in. dia. and 262 lin. yd. of 18in. dia. concrete pipes, 50 lin. yd., of 15in. dia. CI pipes, and 1,460 lin. yd. of 12in. dia. glazed stoneware pipes, with brick manholes, canal crossing, and ancillary works for construction of foul sewer from Stocklake to Broughton Pastures. Boro' E&S. Dep. £2 2s.

Keynsham UDC.—40 old persons' dwellings with warden's house, meeting room, roads, sewers, lighting, etc., at Hawthorn estate. S&E. Dep. £2 2s.



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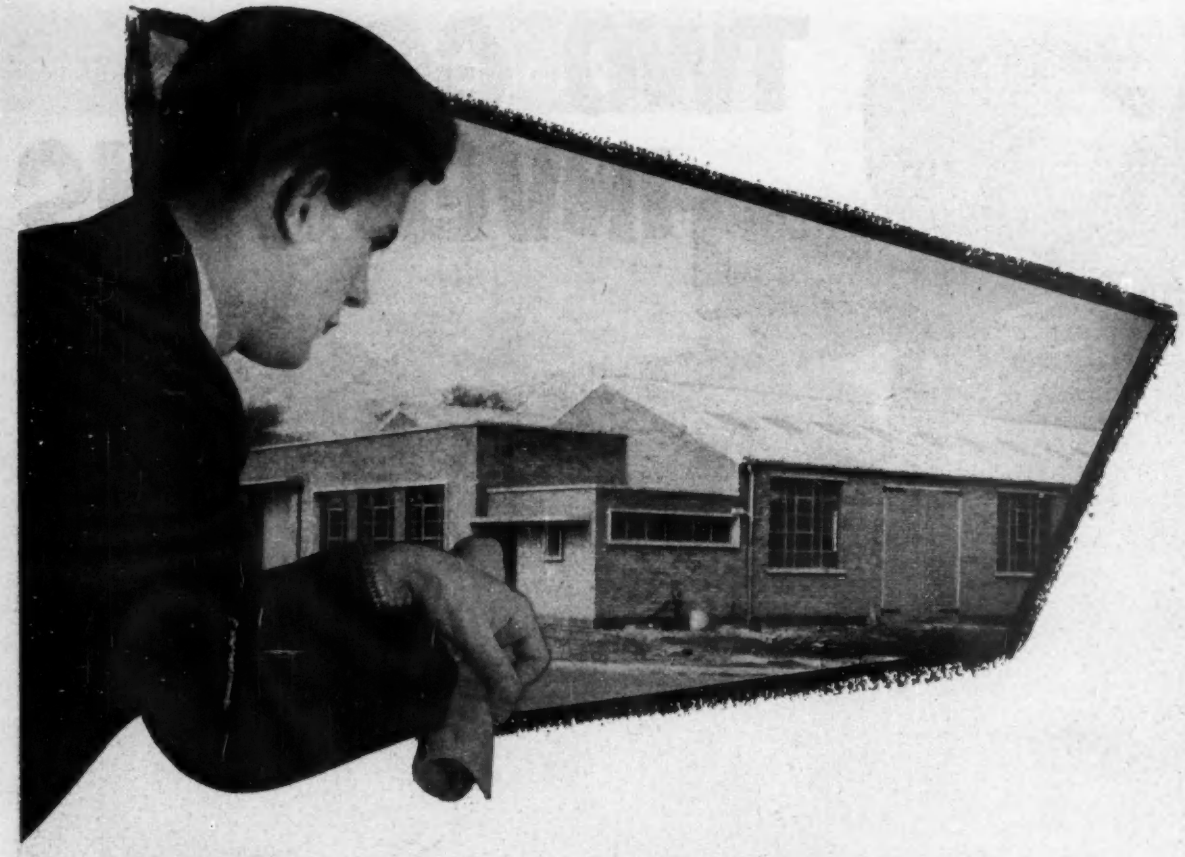

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JUNE 9

Downpatrick, NI, RDC.—7½ miles of 3in. dia. spun-iron water mains, valves and fittings. C. Dep. £3 3s.

JUNE 10

Dungannon, NI, RDC.—6½ miles of 4in. and 3in. spun-iron water mains. C. Dep. £3 3s.

JUNE 15

Ashton-under-Lyne, Stalybridge and Dukinfield (District) Waterworks Joint Com.—4,300yd. of mains in 18in. to 12in. dia. steel, asbestos-cement and spun-iron pipes in Greenfield Valley. G. H. Hill & Sons (Manchester), Civil Engrs., 51 Mosley-st., Manchester, 2. Dep. £5 5s.

JUNE 16

Kington UDC.—900 lin. yd. of 9in. dia. salt glazed ware sewers and new sewage disposal works. J. D. & D. M. Watson, M/MICE, Ccl's. const. engrs., 67 Tufton-st., SW1. Dep. £10 10s.

JUNE 22

Bristol City C.—Main outfall works to Severn estuary, effluent culvert consisting of 2,360 lin. yd. of 7ft. 6in. high by 10ft. 6in. wide r.c. culvert on piled foundations, 760 lin. yd. of triple 6ft. dia. concrete pressure pumping main, and valve chambers, etc. City E and Planning Officer. Dep. £5 5s.

JUNE 23

Farnworth BC.—Main outfall sewer.—550 lin. yd. of 78in. dia. brick-lined sewer in tunnel constructed with pre-cast concrete segments (including work under railway), 250 lin. yd. of 57in. dia. to 78in. dia. and 100 lin. yd. of 9in. dia. to 36in. dia. concrete pipe sewer in open trench, manholes, sewage diverter station, 100 lin. yd. of 4in. dia. rising main, diversion of existing sewage flows, etc., in vicinity of Moses Gate station and under Hall-la. J. D. & D. M. Watson, M/MICE, Ccl's. constg. engrs., 67 Tufton-st., Westminster, SW1. Dep. £10 10s.

JUNE 30

Hartismere RDC.—5,620 lin. yd. of 9in. and 6in. dia. concrete and stoneware sewers, 500 lin. yd. of 4in. dia. asbestos-cement pumping main, pumping station and extensions to sewage disposal works, manholes, etc., all in adjoining parishes of Botesdale, Rickinghall Superior and Rickinghall Inferior. W. Herbert Bateman & Ptnrs., Ccl's. constg engrs., Halifax-hse., Bank Plain, Norwich. Dep. £5 5s.

GENERAL BUILDING WORK

(LONDON)

Barking.—FLATS.—Plans for the development of the Linton-rd., Barking, area, which include a 16-storey block of flats and maisonettes spanning a road, have been approved by Essex CC. The Boro' Architect is M. Maybury (A).

Croydon.—SCHOOL.—The Governors of the Whitgift School have purchased Shirley Park Hotel, Shirley, which they propose to demolish. A new Whitgift Trinity School is to be erected on the site at an estimated cost of £500,000.

(PROVINCIAL)

Ashington.—T. Barrett, Sons & Ptnrs., 17 Brunswick-pl., Newcastle-on-Tyne, appointed QS by Newcastle Hospital Bd. for three-storey ward block at Ashington hospital. A: M. Gatoff (A), 26 Mosley-st., Newcastle-on-Tyne.

Birmingham.—C. Kunzle Ltd., Fiveways, Birmingham, propose new factory at Garretts Green-la., £250,000 est. A: J. Seymour Harris & Ptnrs. (FA), 3/4 Greenfield-cres., Fiveways, Birmingham.

Blackburn.—TC approved plans for new premises at Montague-st. for Walsh Bros. (Blackburn), Ltd. A: Campbell & Driver, Richmond-terr., Blackburn. £40,000 est.

Bolton.—TC approved plans for 10 houses with garages at Oakwood-dr. for Wigshaw Properties Ltd.; 22 bungalows at Rannock-rd. for A. D. Primrose, 556 Halliwell-rd., Bolton; eight bungalows and garages at Hazelwood-rd. for James Horrocks, 19 Churchgate, Bolton.

Brighouse.—Thornhill Yorkshire Estates Co. proposes development of land adjoining Close Lea, Longroyde-rd., Rastrick, for housing purposes.—West Riding CC proposes new sec. sch. at Longroyde, Rastrick.

Brighton.—22-storey block of flats, with eight-storey hotel of 160 rooms, conference hall and five-storey office block proposed on 11½-acre sea-front site at West-st. and King's-rd., which includes site of Sports Stadium for Nicholas Van Slochem. £2m. est. A: Leo Hannen & Associates (A), 6 Woods-mews, Park-la., W1.

'THE BUILDER' PRICES

Until further notice, 'The Builder' Current Prices of Materials section will appear in the first issue of each month only. The 'Measured Prices for New Building Work in London' feature will appear in the second issue of each month. There have been no alterations in materials prices since last week.

Carlisle.—EC received Ministry approval for extensions to grammar sch.—TC approved plans for ice cream factory and frozen food store at Harraby for J. Fontana. A: A. F. Sewell (A), 28 Lowther-st.—Egg packing station at Harraby for West Cumberland Farmers' Assn. A: Graham & Roy (L/A), 6 Paternoster-row, Carlisle.—New premises at Spencer-st. and St. Paul's-sq. for Carlisle Conservative Club, Ltd., A: F. G. Jackson (A), Lowther Arcade-chbrs., Lowther-st., Carlisle.

Carlisle.—Plans approved for offices at Durranhill industrial estate for Tyre Services (Carlisle), Ltd. A: N. M. Phillips, Carlisle.—J. Twiname, Ltd., Builders, Allerdale-hse., Brigham, to erect 46 houses nr. Dalston-rd. to plans by J. Saul (L), Provincial Bank-chbrs., Workington.—Barwick Bros., builders, Gilsland, to erect 14 houses nr. Dalston-rd. to plans by J. B. Dand (A), 77 Warwick-rd., Carlisle.

Chadderton.—UDC approved plans for 34 houses fronting Broadway for F. A. Carfield.

Cheltenham.—Gloucestershire CC proposes extensions to Technical College, The Woodlands, The Park.—By-law and TP approval to Leckhampton Estates, Ltd., for 26 flats at 4 College Lawn.—BC to seek MH&LG consent to demolition of Arle-hse. and use of site and adjoining land for erection of 30 dwellings.—Boro' S (G. Gould Marsland, MBE, MInstCE) to submit plans for six/eight-storey block of flats on site of Charlotte-hse., Winchcombe-st.

Chesterfield.—EC proposes erection of: new Chesterfield sch. at Storrs-rd.; Newbold CofE prim. sch.; Christ Church CofE sch.; Hady infants' sch., and Derby-rd. RC prim. sch.; new school hall and gymnasium, library, extra classroom and practical accommodation at Hasland Hall; new geography room, library, extra practical room and laboratory accommodation at St. Helena sch.; hall/gymnasium, library, additional classrooms and laboratory at Hunloke sch.; hall/gymnasium, extensions to library, extra practical room and improved laboratory at Manor sch.

Chesterfield.—TC considering scheme for block of flats on site of former Newbold-hse., opposite Newbold Green sch.

Chesterfield.—RDC to erect a group of 3-bedroomed Gregory houses at Gleadless and 10 houses at Stonebroom for sale.—Mansfield Brewery Co., Ltd., propose erection of new licensed premises at Dunston-la. and rebuilding of 'Goldminers Arms' at Littlemoor.

Chester-le-Street.—RDC approved plans for fifth stage of factory extension scheme for Caterpillar Tractor Co. to firm's own plans.—A: F. Bowman (A), prepared plans for 12 aged persons' bungalows at Pitfield-st., Sacriston.

Chester-le-Street.—MH&LG allowed appeal against RDC's rejection of plans for motel at Black Fell, Birtley, for C.M.Y. Property Co., Holly-ave., Newcastle-on-Tyne. A: Matkin & Hawkins (L/F), Barclays Bank-chbrs., Fawcett-st., Sunderland.

Clowne.—RDC to erect 20 houses and six bungalows at Barlborough.

Crompton.—UDC proposes erection of 36 aged persons' bungalows at Hunger Hill estate.

Cuckfield.—RDC has informed MH&LG that it will build 67 houses this year—22 at Crawley Down, 22 at Ardingly, 19 at Scaynes Hill, and 4 at Anstye.

Darlington. — Development Com. approved plans for new court house and police station at Northgate. Boro' A: E. A. Tornbohm (A), Central-bldgs., Darlington.

Darlington.—TC approved in principle, sketch plans by Boro' A for new civic centre. First part of scheme will provide for general stores, clinics, health dept., Boro' E's dept., Boro' A's dept., and accommodation for Inland Revenue Dept. in six-storey block.

Doncaster.—John Peters (Furnishing Stores), Ltd., propose conversion of warehouse at Wood-st. into shops and offices, £60,000 est. Plans by H. A. Hickson & Son (F), Hall Gate, Doncaster.

Durham.—CC authorised purchase of site of 1½ acres at Mill-la., Hebburn, for new fire station.—Test bore holes to be made by CC on site of proposed fire station at Birtley.

Durham.—City C approved plans for Baptist church at Sherburn-rd. A: Waring & Netts (A), 36 Jesmond-rd., Newcastle-on-Tyne.

Durham.—CC to commence work this year on new fire station at Aycliffe. County A: G. R. Clayton (F), South-st., Durham.

Durham.—CC to start work this year on alterations and additions to Durham girls' grammar sch., £140,000 est. County A: G. R. Clayton (F), South-st., Durham.

Eastleigh, Hants.—BC to earmark site on or adjoining Home Farm, fronting Leigh-rd., for new municipal offices.

Eccles.—TC approved plans for 40 houses at Gilbert-st., Tindall-st. and Reginald-st.—18 bungalows on north side of Weymouth-rd. for A. Doughty & Co., 18 Entwistle-ave., Davyhulme, and new office block at Clifford-st. for Corporation Works Dept.

Felling, Co. Durham.—Plans by S (R. Morton) for 12 bungalows and six houses at Wood Green, Bill Quay, approved.—J. H. Fisher & Co. (Newcastle), Ltd., Lansdowne-terr., Gosforth, propose 150 houses north of Davidson-rd. to plans by J. H. Morton & Son, Martins Bank-chbrs., Fowler-st., South Shields.

Glendale.—Following inquiry, MH&LG has given RDC permission to acquire land at Wooler for 24 houses. S: A. R. Field.

Halifax.—TC approved alterations to Palace Theatre to form shops and offices for O. & C. Estates, Ltd.

Hartlepool. — The North-Eastern Housing Assn., Ltd., 5 Windsor-terr., Newcastle-on-Tyne, have been invited to build further houses on land nr. King Oswy-dr., where 85 houses can be built.

Hebburn, Co. Durham.—UDC approved layout plans by S (R. C. Bestow) for 61 houses at Toner-ave.—A development company approached by UDC has decided not to carry out shopping development scheme in Station-rd. area, and Ccl. considering carrying out work itself.

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Huddersfield.—TC to prepare revised plans for Floral Hall at Greenhead Park, £95,000 est.

Hyde.—BC approved in principle erection of two sec. schools adjoining Back Bower for Cheshire EC.

Ince-in-Makerfield.—UDC approved erection of five blocks of four one-bedroomed flats on site of former Ince central schools.

Isle of Wight.—EC submitted to MofE proposals for replacement of Ryde CE and Binstead schools by new two-form entry school and provision of new buildings for Barton county junior sch. Com. awaits Minister's decision on proposal to build in central position school for all Island ESN children.

Kent CC.—Draft major building programmes (excluding special schools) submitted to MofE:—*1960-61:* Orpington, Tubbenden county prim. (infants'), £42,000; Orpington, Ramsden county prim. (infants'), £42,000; Orpington, St. Olave's grammar sch., £168,300; Dartford tech. sch. for boys, £80,000; Erith, Picardy sec. sch. for girls, £135,500; Swanley East county prim., £42,000; Wilmington, Joydens Wood county prim., £32,000; Gravesend East (River View estate) county prim., £54,000; Gravesend tech. sch. for girls—additions, £78,000; Longfield sec. sch., £152,000; Cranbrook School—additions, £60,000; Edenbridge sec. sch., £108,700; Sevenoaks, Wildernesse sec. sch. for boys—additions, £42,000; Tonbridge, Hugh Christie sec. sch., £60,000; Tonbridge tech. sch. for girls, £100,000; Aylesford sec. sch., £25,000; Coxheath county prim., £25,000; Maidstone, Bell Wood county prim. infants', £42,000; Maidstone RC sec. sch., £50,000; Maidstone, Senacre sec. sch., £30,000; Maidstone tech. sch. for girls, £100,000; Rochester, Warren Wood county prim. jun., £22,000; Medway RC sec. sch., £150,000; Rochester, Borstal St. Matthew's CE prim., £32,000; Faversham, Lady Capel sec. sch. for girls—additions, £60,000; Folkestone Cheriton Church-rd. county prim. jun., £54,000; Folkestone tech. sch. for girls—additions, £60,000; Hythe, Brockhill sec. sch. for boys, £50,000; Dover, Aycliffe county prim., £32,000; Birchington CE prim., £25,000; Margate, Westgate county prim. infants', £42,000; Ramsgate, Chatham-hse. grammar sch. for boys—additions, £60,000; Beckenham, Hawes Down sec. sch. for boys—additions, £35,000; Bromley grammar sch. for boys—additions, £25,000; Gillingham, Fairview county prim.—additions, £25,000; Gillingham tech. sch. for boys, £70,000; Gillingham, Upbury Manor sec. sch., £54,000. *1961-62:* Orpington, Ramsden sec. sch. for boys, £25,000; Orpington, Ramsden sec. sch. for girls, £25,000; Orpington, Crofton county prim. infants', £61,000; Sidcup sec. sch. for boys, £90,000; Dartford tech. sch. for girls, £70,000; Horton Kirby CE jun., £32,000; Northfleet sec. sch. for boys, £50,000; Northfleet sec. sch. for girls, £30,000; Tunbridge Wells, North East county prim., £54,000; Chatham, Dargets Wood county prim., £25,000; Medway tech. sch. for girls, £35,000; Rochester, Chapter sec. sch. for girls—additions, £20,000; Rochester grammar sch. for girls, £50,000; Milton Regis county prim., £54,000; Sturry sec. sch.—additions, £35,000; Ashford RC (Aided) prim., £42,000; Folkestone, Morehall sec. sch. for boys, £108,000; Dover, Whitfield county prim., £32,000; Thanet, St. George's and St. John's CE sec. sch. for boys, £197,000; Bexley tech. sch. for girls—additions, £40,000.

Lancs.—EC approved sites at Howards-la., Orrell, and Council-ave., Ashton-in-Makerfield, for erection of new schools by RC Diocese of Liverpool.

Liverpool.—City C to seek planning permission from MH&LG for maternity and child welfare centre and aged persons' hostel at junction of Lower-la. and Long-la.—MH&LG approved (a) development of further 1.5 acres in Boundary-st. area for housing (b) development of 4.36 acres at Greenhill-rd. for educational purposes, and (c) erection of public laundry and baths at St. Domingo-rd.

Liverpool.—EC seeks loan £407,302 for erection of North East Liverpool Branch Technical College.

Lydd.—TC received Ministry approval to build 12 flats this year to replace temporary bungalows.

Lyndhurst, Hants.—Lyndhurst, Emery Down and Bank Community Assn. seek planning approval for community centre hall, classrooms and ancillaries, on site adjoining western boundary of Oxford Meadow car park, High-st.

Lytham St. Annes.—Plans submitted to BC:—Four blocks of flats and maisonettes with garages and outbuildings at corner of Squires Gate-la. and Westwood-rd., Squires Gate, for Blackpool CBC.—19 bungalows at Sherwood-ave., St. Annes, for T. T. Bird.

Manchester.—RC diocese of Salford proposes erection of prim. sch. at Manley-rd. and Alexandra-rd. South, Chorlton-cum-Hardy.—A: Arthur Farebrother & Ptnrs., 99 Seymour-gro., Manchester. TC approved plans for outpatients, X-ray and physiotherapy depts. at Elizabeth-st., Cheetham, for Manchester Regional Hospital Bd. A: Taylor & Young (F), 195 Oxford-rd., Manchester.

Maryport, Cumberland.—S (D. Thompson) prepared plans for 70 houses, bungalows and flats on Coronation-st. allotment site, Grasslot. No contracts let.

Middlesbrough.—S. Stevenson-Jones (A), 11 Old Hall-st., Liverpool, is A for proposed RC church at Beechwood for Rev. Canon J. McMullan.

Newcastle-on-Tyne.—British Railways (North-Eastern Area), York, to construct additional office accommodation covering 12,000 sq. ft. above portico at Central station, Newcastle.

Newcastle-on-Tyne.—City A (G. Kenyon (A), AMPTI), 18 Cloth Market, Newcastle, to commence plans for abattoir and cattle market nr. Delaval-rd., Newcastle.

Newcastle-on-Tyne.—City C to extend Whitehouse-rd. at cost of £50,000. Work to be done by contract, but no tenders yet obtained. City E: P. Parr.

Northampton.—Giesen & Wolff, Ltd., Victoria-rd., Northampton, propose erection of new premises on Dallington Fields industrial estate. A: Sir John Brown, A. E. Henson & Ptnrs. (F/A), 30 Billing-rd., Northampton.

Nuneaton.—TC to prepare preliminary plans for swimming baths at recreation ground.

Oldham.—BC proposes aged persons' hostel at junction of Lees New-rd. and Rhodes-hill.

Queensbury and Shelf.—HC seeks MH&LG permission to build 50 old people's bungalows.

Runcorn.—UDC approved plans for layout of roads and 24 bungalows off Sea-la. for Wm. Clare & Son, 94 Stopes-rd., Little Lever, nr. Bolton.

Rochester.—MH&LG granted loan sanction of £52,900 for 32 houses at Warren Wood estate.

Silsden. — UDC proposes demolition of 27 houses at Keighley-rd. and erection of 3-storey flats.

Slough.—LCC to build further 440 concrete garages at Britwell estate in 1959-60, £70,400 est.

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Smethwick.—TC approved revised plans for 12 two-bedroomed flats at Galton-hse. site.

Southampton.—Plans being prepared for new science block, comprising advanced chemical laboratories and biology laboratory, two general purpose laboratories, lecture theatre, preparation rooms, store rooms, animal and plant houses, at King Edward VI school. A: Weston, Burnett & Thorne (L), Southampton.

Southampton.—South Western Tar Distillers, Ltd., Totton, to construct new chemical works at Totton. Constg. engrs.: Burt, Boulton & Haywood.

Stafford.—CC proposes new grammar sch. for girls, £120,000 est.

Stockport.—TC seeks Ministry approval for sketch plans of proposed Newlands aged persons home, £54,000 est. Propose following in 1959-60 programme:—Extensions at Taxal Lodge Residential Special School, £19,000 est.

Stockton-on-Tees.—H. B. Raylor & Co., Ltd., Thomas-st. Works, York, to erect warehouse and office block at Haverton Hill-rd. and are discussing scheme with local planning authorities.

Stockton-on-Tees.—TC approved outline plans for 156 houses at Darlington-la. for Marsh (Builders), Ltd., Grangefield-rd., Stockton.

Stretford.—Plans submitted to BC:—Demolition and rebuilding of office block at 1011 Chester-rd. for Isherwoods Garages, Ltd.—New prim. sch. of St. Hilda's at Firswood Farm for CofE Authorities.—24 flats at Norwood-rd. for R. R. & J. Willan, Ltd.

Sunderland.—Plans approved:—10 houses at Arncliffe-ave. for Pattison Bros. A: Wm. & T. R. Milburn (A), 18 Fawcett-st., Sunderland.—RC jun. sch. on site bounded by Redcar-rd., Beechwood-cres. and North Hylton-rd. for Rev. P. Smith. A: R. Burke (L), Lambton-hse., Lambton-rd., Jesmond, Newcastle-on-Tyne.

Sunderland.—Plans approved:—14 blocks of six flats at Azalea-terr. for CBC. Boro' A: H. C. Bishop (A).—New Methodist church at Ettrick-gro. for Rev. L. J. Maw. A: Messrs. J. Potts & Son, 57 John-st., Sunderland.—10 houses with garages at Seaforth-rd. for Matthew Nunn. A: G. T. Brown & Son (F/), 53 Fawcett-st., Sunderland.—Eight houses with garages at Humbledon Hill estate for F. Stewart Bros. A: G. T. Brown & Son (F/A).—46 houses at High Barnes estate for I. Smith. A: Wm. & T. R. Milburn (A), 18 Fawcett-st.—Motor showroom, garage and flats at Ryhope-rd., Grangetown, for R. Grantham. A: J. T. Stephenson, Gillis & Ptnrs., 2 Saville-chbrs., North-st., Newcastle-on-Tyne, 1.

Sunderland.—TC proposes new road 80ft. wide between Union-st. and Crowtree-rd.; widening Walworth-st. from 23ft. to 45ft.; carrying out street works at South-st., Crowtree-rd. and Union-st.; and reconstruction and minor widening work at Back Brougham-st., £95,000 est. Boro' E: T. Donkin, 27 Fawcett-st., Sunderland.

Sutton Coldfield.—BC approved development of corner of Carhampton-rd. and Churchill-rd., Falcon Lodge estate, by bungalows and flats for aged persons.—MoW proposes new telephone exchange at rear of Jordan-rd.

Swinton and Pendlebury.—TC to erect 16 flats on site of Twenty-row, Pendlebury, and 30 aged persons' bungalows and communal unit at Moorfield.

Tipton.—TC to prepare layout for erection of dwellings at the junction of Factory-rd. and Old Cross-st.

Warrington.—RC authorities to commence work this year on proposed English Martyrs sch., £142,000 est.

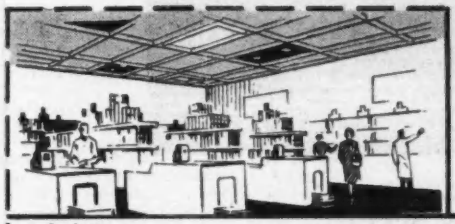
Washington, Co. Durham.—Graham & Mansworth, Ltd., builders, Park-dr., Newcastle-on-Tyne, 12, are planning housing developments at Heugh Hill and Usworth Village.

West Hartlepool.—Following appointments made in connection with TC's plan for new College of Further Education:—QS: R. H. Duns, Lambton-hse., 10 Lambton-rd., Jesmond, Newcastle-on-Tyne; constg. engrs., for heating, electrical and ventilating work; Cairns & Byles, 8 Osborne-rd., Newcastle-on-Tyne; structural consultants: Expanded Metal Co., Ltd. (Reinforced Concrete Design Group), Stranton Works, West Hartlepool.

West Hartlepool. — H. Ripley, builder, 12 Linden-gro., West Hartlepool, to erect 18 houses at Zetland-rd.

Whitby.—UDC considering provision of housing accommodation for 24 families at Haggersgate. Ccl's. A: Messrs. Peacock & Bewlay, 224 Hagley-rd., Birmingham, 16.

Whichever way you work it....



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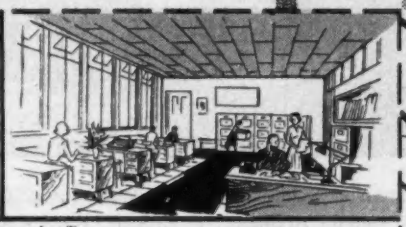

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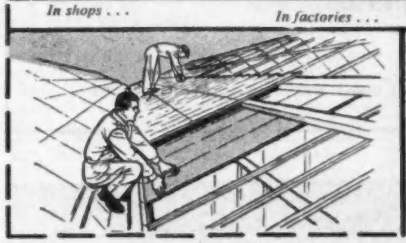

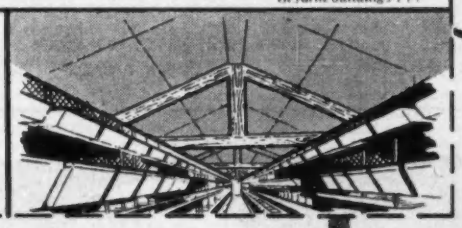

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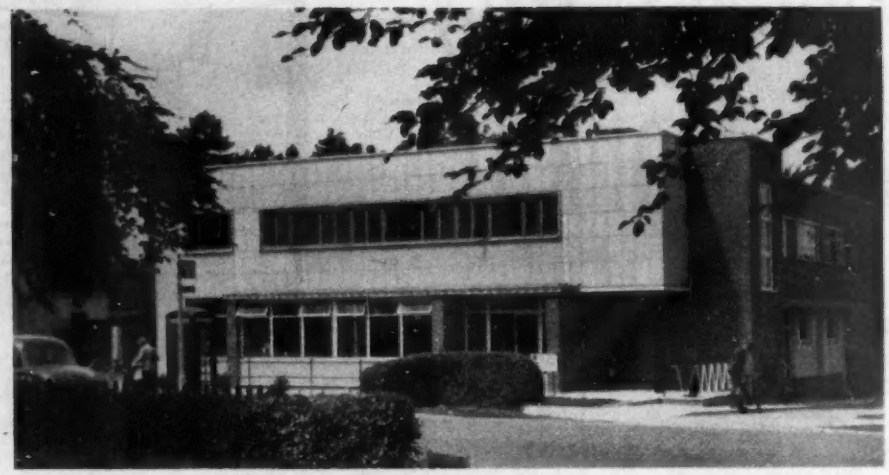

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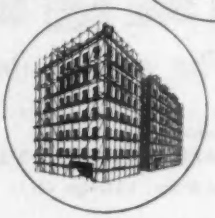

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Whitley Bay.—W. Glynn, builder, 2 Rossway, Monkseaton, to build 250-300 houses on land acquired from Osborne Trust Ltd. A: Wood & Pigg (A) 17A Northumberland-sq., North Shields.

Wigan.—Former 'Cross Keys,' Market Place, has been sold to Allen Aaronson for demolition and erection of gown shop, £20,000 est.

Wigan.—TC to erect 300 houses a year by direct labour for next two years, and 100 houses a year by private contract.—EC considering erection of new St. John Fisher sec. girls' sch. adjoining St. Patrick's sch.

Willenhall.—Taubman Property and Investment Co., Ltd., London, propose redevelopment of Picture House at Stafford-st. by shops.

Winchester.—City C to build block of flatlets on Queen's-rd. slum clearance site, for nurses at Royal Hampshire County Hospital.

Worcestershire.—CC proposes new home for aged people at Halesowen, £75,434 est.

Worcestershire.—EC approved sketch plans for extensions at Bromsgrove county high sch., £116,000 est.

Worksop.—TC to erect 74 houses for sale in Kilton Hill area.

TENDERS

* Denotes *accepted.*
† Denotes *provisionally accepted.*
‡ Denotes *recommended for acceptance.*
§ Denotes *accepted subject to modification.*
¶ Denotes *accepted by H.M. Government Departments.*

Bangor.—New headquarters at Penrhos-rd. for Nature Conservancy. *Watkin Jones & Son Ltd., 16 Mount-st., Bangor. £30,000 approx.

Birmingham.—New office building at Moor Green for Britannic Assurance Co., Ltd. *Turriff Construction Co., Ltd., Budbrooke-rd., Warwick.—Extensions at George Dixon grammar sch. for girls for EC. *J. & F. Wootton, Ltd., Pinfold, Bloxwich, £43,844.

Birmingham.—Works for City C. City A: A. G. Sheppard Fidler (F), MTPI. Tenders accepted in April, 1959:—20 dwellings, Bunbury-rd., estate, Northfield. *Mackee & Rodway (Suburbia) Ltd., 1 Chatham-rd., Northfield, Birmingham, 31. £42,612.—27 dwellings and 10 garages at 'The Manor,' Pershore-rd. *C. Bryant & Son, Ltd., 65 Whitmore-rd., Small Heath, Birmingham, 10. £62,653.—One large tenants' room, Pool Farm estate. *Mackee & Rodway (Suburbia), Ltd., 1 Chatham-rd., Northfield, Birmingham, 31. £7,095.—Museum and Art Gallery: sun blinds. *Deans Blinds (Putney), Ltd., 329-333 Putney Bridge-rd., Putney, SW15. £5,511.—The Heathlands infants' sch.: proposed nursery. *T. Johnson (Contractors), Ltd., 49-59 Alma-cres., Birmingham, 7. £5,017.—Turves Green boys' mod. sch.: practical accommodation. *John Bowen & Sons, Ltd., George-st., Balsall Heath, Birmingham, 12. £5,907.—Yardley grammar sch.: new science and practical block. *Parsons & Morrin Ltd., 133 Belgrave-rd., Edgbaston, Birmingham, 5. £31,470.—George Dixon grammar sch. for girls: proposed new science wing. *J. & F. Wooton Ltd., Pinfold, Bloxwich, Walsall. £43,844.

Bishop Auckland.—74 houses at Woodhouse Close estate for UDC. S: J. Ford, The Elms, Silver-st., Bishop Auckland. *Edwin Pye & Son, Ltd., East Parade, Bishop Auckland. £88,187 (subject to Ministry approval).

Bolton.—New workshop block at Technical Teachers Training College for EC. *George & Beddows, Ltd., Valletts-la., Bolton.

Bournemouth.—Alterations and additions to department store for Brights Ltd., Old Christchurch-rd. A: Messrs. Reynolds, Tomlins & Dexter (L/A), Granville-chbrs., Yelverton-rd., Bournemouth. *James Drewitt & Son, Ltd., Ringwood-rd., West Howe, Bournemouth. £13,000.

Brandon and Bysottles.—54 houses at Esh Winning for UDC. A, E&S: F. Hedley (A). *Direct labour. £83,030.

Cardiff.—Works for City C. City A: John Dryburgh (A), ARICS, AMTPI. Aged persons' home, Llanrumney. QS: C. E. Whitfield Richards, ARICS, 12 Museum-pl., Cardiff *A. Stacey, 3 Tydraw-pl., Cardiff. £54,474.—Aged persons' home, Gabalfa. QS: Stantiall & Parker, 41 Walter-rd., Swansea. *Direct labour. £52,254.—Branch library, Llanrumney. QS: C. G. P. James, ARICS, AIArb, 113 Cathedral-rd., Cardiff. *Direct labour. £20,816.—Branch library, Fairwater. QS: E. G. Dale, FRICS, FIArb. *Curran Steels Ltd., Curran-rd., Cardiff. £23,404.—Rhydypenau CP sch., alterations and additions. Ch. QS: C. Lockton, ARICS, City A's Dept. *Curran Steels, Ltd., Curran-rd., Cardiff. £16,247.

Chorley, Lancs.—New C. of E. sec. sch. at Croston for Diocesan Board of Finance. *G. & J. Seddon, Ltd., Little Hulton, nr. Bolton.

Congleton.—9 bungalows at Main-rd., Goostrey for RDC. *Sparkes & Yearsley (Contractors), Ltd., 5 Chapel-st., Congleton. £10,240.

Darlington.—52 houses at Firth Moor estate (stage 3) for TC. Boro' A: E. A. Tornbohm (A), AMTPI. *Direct labour. £76,114.

Derby.—Staff canteen at British Celanese Works, Spondon, for Caurtaulds Ltd., Coventry. *Ford & Weston, Derby. £34,000.

Dunstable.—Fixed price tenders for 23 old people's dwellings and warden's block at Downside estate for BC. A: Ronald Thurston (A), QS: G. Bullock. *Samuel Foster Ltd., High-st., Kempston, Bedford. £33,799 (subject to Ministry approval).

Halesowen.—22 dwellings at Hillwood-rd. site for TC. *S. Parkes (Builders), Ltd., 153 Powke-la., Blackheath. £43,253.

Haslingden.—13 houses at Broadway estate, Helmshore, for BC. Boro' E&S: A. B. Watson, AMIMunE. *D. L. Grimshaw & Co., Ltd., Wood Top, Bury-rd., Rawtenstall, Lancs. £19,500.

Hexham.—New council chamber for RDC. A: W. Dixon & Son (A/L), 1 Collingwood-st., Newcastle-on-Tyne. *T. D. Bird & Co. (Hexham), Ltd., 13 Hencotes, Hexham. £19,930 (subject to Ministry approval).

Holborn.—New office and showroom building on site of old Kingsway Theatre and other buildings, Great Queen-st., WC2, for Pearl Assurance Co., Ltd., and Laing Development Co., Ltd. Two adjoining blocks will have basement, ground and seven and 12 upper floors respectively, and two licensed premises will be included in the scheme. *John Laing & Son, Ltd.

Keighley.—Methodist church at Oakworth. *M. Sharp, Oakworth. £14,000 approx.

Kensington.—Imperial College of Science and Technology, Exhibition-rd., South Kensington. Construction of boiler house and electrical engineering workshops, including piling to adjacent building, asphalte tanking to foundation, underground oil tanks, subway extension and new concrete chimney 180 ft. high. A and constg. engrs.: Norman & Dawbarn (F/A), 7 Portland-pl., W1. QS: William C. Inman & Ptnrs. *Wates, Ltd., 1258-60 London-rd., Norbury, SW16 £421,548.

Kensington.—One block of three 3-storey terrace houses and garages in brick construction with timber framed floors and roof at Melbury-rd., W14, for West End and Greater London Properties, Ltd. A: Planning & Development, Ltd.. Superintending A: Martin C. D. Richmond (A). *Wates, Ltd., Norbury, SW16. £19,120.

Lancaster.—Dining hall and kitchen at 'Bay View' for Bd. of Governors, Royal Grammar School. *R. L. Dilworth, Ltd., Damside-st., Lancaster. £22,173.

London (British Railways).—Recent contracts placed by North Eastern Region:—Darlington loco. works—supply and delivery of test equipment for Diesels. British Thomson-Houston Co., Ltd., Rugby.—Newport marshalling yard—painting steel sheet piling. Brims & Co., Ltd., Newcastle.—Old Royston—Midland Cottages (10 houses), water closets and septic tank. Glew Bros., Royston, nr. Barnsley.—Pelaw—concrete raft and road works. Tarslag Ltd., Stockton-on-Tees.—Hull Botanic Gardens M.P.D.—lubricating oil dispensing facilities. H. Bingham & Sons, Ltd., Doncaster.

¶London (MoW).—Contracts placed for week ended May 8:—*Dumfrieshire:* Post Office, Loreburn-st., Dumfries, erection of telephone exchange and telephone repeater station, John L. Haley Ltd., Terregles-rd., Dumfries. *Co. Durham:* High-st., Stockton-on-Tees, erection of Head Post Office, F. Shepherd & Son, Ltd., Blue Bridge-la., York. *Lancashire:* Ministry of Pensions and National Insurance, and Post Office Training School, Palatine and Dene-rds., Didsbury, Manchester, internal and external painting, Kilbournes Ltd., 4A Birch-la., Manchester, 13. *Lincolnshire:* Civil Defence Stores, Aerodrome Home Office, Goxhill, internal painting, D. Humberstone & Co., Ltd., North Somercoates, Louth. *London:* Abell-hse., John Islip-st., SW1, internal cleaning, Clean Walls, Ltd., 49 Paddington-st., W1; Post Office Savings Bank, Blythe-rd., W14, alterations and decorations to canteen and kitchen, Richard Maddern Ltd., 15 The Viaduct, Sherwood-rd., South Harrow; Queen Anne's-chbrs., Tothill-st., SW1, renewal of leadwork to stone cornices, etc., W. & M. Negus Ltd., Station Works, King James-st., Southwark, SE1; Post Office Engineering Depot, Cornwallis-rd., N19, Road works and resurfacing of floors, Buckingham & Sons Ltd., Buckingham-chbrs., 45 Vivian-ave., Hendon Central, NW4; Post Office Savings Bank, Blythe-rd., W14, decorations and attendance on Post Office engineers, Whyatt (Builders) Ltd., 225 Streatham High-rd., SW16. *Middlesex:* West Drayton Telephone Exchange, Station-rd., West Drayton, alterations and additions to ground and 1st floors, Sheppard & Short, Ltd., 784 Harrow-rd., Sudbury, Wembley. *Worcestershire:* Prison Commission, Hewell Grange, Bromsgrove, erection of eight houses, J. & A. Brazier Ltd., 170 Worcester-rd., Bromsgrove. *Yorkshire:* Ex. Royal Ordance Factory, Thorp Arch, demolition of buildings, etc., F. Hardwick Ltd., Brunel-bldgs., Armley-rd., Leeds.

¶London (War Dept.).—Works contracts placed for week ended May 8:—*Berkshire:* (Didcot), thermal insulation, Bells Asbestos & Engineering Ltd., Slough; (Shrivenham), building, A. J. Dunning & Sons (Weyhill) Ltd., Andover. *Cumberland:* (Longtown), roofing, John Hadfield & Sons Ltd., Sheffield. *Hampshire:* (Tidworth), heating, John Carter & Son (Salisbury) Ltd., Salisbury; (Aldershot), electrical, R. McEwen & Co. (Woking) Ltd., Woking; (Middle Wallop), grass cutting, Surface Maintenance Services Ltd., Cheltenham. *London:* (SW1), roofing, J. J. Etridge (Jnr.) Ltd., London. *Midlothian:* (Edinburgh), grass cutting, Maxwell M. Hart (Glasgow) Ltd., Edinburgh. *Oxfordshire:* (Wheatley), grass cutting, Surface Maintence Services Ltd., Cheltenham. *Shropshire:* (Donnington), cladding, D. B. Evans (Bilston), Ltd. Bilston. *Surrey:* (Merstham), building F. Kirkham (Croydon) Ltd., Croydon. *Westmorland* (Warcop), miscellaneous, W. E. Sayer, Kirkby Stephen. *Wiltshire:* (Bulford and Larkhill), grass cutting, E. V. Ruddick, Andover; (Tidworth area), grass cutting, John Waterer Sons & Crisp Ltd., Twyford, Berks. *Yorkshire:* (Strensall), building, Lee-Micklethwait Ltd., York.

Long Eaton.—48 three-storey flats and 4 shops at Sawley estate for UDC. *Gregory Housing, Ltd., 21 Farncombe-rd., Worthing.

Maltby.—50 houses at Cliff Hills estate for UDC. E, S&Housing A: G. H. Davis, MIMunE. *C. Mollekin, Ltd., Manor-bldgs., Braithwell-rd., Maltby. £70,400.

Margate.—21 flats at Flint-row for BC. Boro' E: G. E. Sewell. *Operative Builders & Decorators Ltd., Birchington. £31,694.

Merthyr Tydfil.—New omnibus garage and

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Middlesbrough.—New crematorium for TC. Boro' E: J. A. Kenyon, Muncipal-bldgs., Middlesbrough. ‡Charles Tennet (Builders), Ltd., Church-rd., Stockton-on-Tees. £73,276.

Northants.—Erection of Kings Cliffe sec. mod. sch. for CC. *H. J. Firmin, Ltd., Newark-rd., Peterborough.

Northumberland.—New health depot at Morpeth for CC. County A: C. C. Brown (A), County Hall, Newcastle-on-Tyne. *R. W. Bell & Co., Ltd., Mistletoe-rd., Jesmond, Newcastle-on-Tyne. £10,715.

Nottingham.—New shop and office premises on Collin Almshouses site for Town and City Properties, Ltd., London. *Richard Costain & Co., Ltd., London.

Poole, Dorset.—Alterations and extensions to W.T.O. building for Carter Tiles, Ltd.. A: Ramsey, Murray, White & Ward (F/A), 32 Wigmore-st., W.1. *James Drewitt & Son, Ltd., Ringwood-rd., West Howe, Bournemouth. £18,000 (negotiated contract).

Poole, Dorset.—Harbin mod. sch. extensions for CC. *Direct labour. £19,600.

Rowley Regis—76 houses, eight bungalows and 14 garages at Blackberry-la. estate, Springfield for BC. A: R. H. Scriven, Municipal-bldgs., Old Hill, Staffs. *Five Oaks Estates, Ltd., Five Oaks, Radford-la., Compton, Wolverhampton. £121,414.

Runcorn.—208 dwellings and 32 garages at Grange Neighbourhood Unit for UDC. Lloyd & Cross, Ltd. £365,420. Boy & Partners, Ltd., £352,056. W. E. Jones (Contractors), Ltd., £347,559. *Thos. Warrington & Sons, Ltd., Ellesmere Port. £341,500.

Salford.—Modernisation of further 118 houses at Barracks site, Regent-rd., for TC. *Direct labour. £72,657.

Scarborough.—New crematorium for TC. Boro' E: H. V. Overfield. *Plaxtons (Scarborough), Ltd., Seamer-rd., Scarborough. £50,485.

Sheffield.—Erection of Rollestone prim. sch. for EC. *J. F. Finnegan & Co., Ltd., 847 Eccleshall-rd., Sheffield, £100,433.

Sittingbourne and Milton.—Fixed price tenders for (a) 18 houses, and (b) 40 houses at Canterbury-rd. housing estate. E&S: A. W. Lloyd, AMICE, MIMunE. QS: Rider Hunt & Ptnrs., Gillingham, Kent. *T. R. Swann & Son, Ltd., Staplehurst-rd (A and B), Sittingbourne. £126,547.

Southport.—Phase 2 of new mental deficiency colony at Greaves Hall, Banks, for Liverpool Regional Hospital Bd. *Tysons (Contractors), Ltd., Dryden-st., Liverpool. £1,193,100.

Stanley, Co. Durham.—New civic hall for UDC. A: P. L. Browne, Son & Harding (F), Pearl-bldgs., Northumberland-st., Newcastle-on-Tyne. *H. Ayton & Sons, George-st., Blackhill., Co. Durham. £44,655.

Stokesley.—11 aged persons' bungalows at Yarm for RDC. E: H. Johnson, AMIMunE. *G. L. Finch, Stockton-on-Tees. £12,140.

Sutton Coldfield.—28 aged persons dwellings at Cremorne-rd. site. *Hy. Boot & Sons (Midland), Ltd. £32,138.

Tenby.—22 bungalows, with roads and sewers at Jones-terr. for BC. Boro' S. QS: L. B. Smith, ARICS, Haverfordwest. *Hadsphaltic Construction Co., Ltd., Victoria-hse., Victoria-rd., Pembroke Dock. £34,104.

Wallasey.—Large scale alterations and extensions at Technical College for TC. *Leyland Construction Co., Ltd., Leyland, Lancs.

West Bromwich.—140 dwellings and 53 garages at Hilton-st., Young-st. and Bailey-st. for BC. *Direct labour. £171,916.

West Drayton.—Erection of West Drayton sec. sch. for Middlesex CC. County A: C. G. Stillman (F). *Intercon Constructors, Ltd. £196,204.

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GALBRAITH
BROTHERS LIMITED
BUILDERS
CONTRACTORS
& ENGINEERS
Registered Office:
61 BARTHOLOMEW CLOSE
E.C.1
MONarch 7597-8
Works:
CRAYFORD BRIDGE
KENT
CRAyford 25544-5-6-7

OFFICIAL ANNOUNCEMENTS

COMPETITIONS CONTRACTS PUBLIC APPOINTMENTS

Rate: 30/- per inch, minimum ½-inch; each additional line 2/-

PLEASE NOTE THE LATEST DATE FOR ACCEPTING ADVERTISEMENTS IN THIS SECTION IS 12o'clock NOON, TUESDAY, PRIOR TO ISSUE

CONTRACTS

BOROUGH OF DARTFORD.

ALTERATIONS AND EXTENSIONS TO PUBLIC CONVENIENCES, MARKET-STREET, DARTFORD.

TENDERS are invited for ALTERATIONS and EXTENSIONS to PUBLIC CONVENIENCES in Market-street, Dartford, as under:—

2 NEW W.C.s AND ATTENDANT'S OFFICE.

ALTERATIONS TO EXISTING CONVENIENCES INCLUDING PROVISION OF LAVATORY BASINS.

Form of Tender and Bills of Quantities may be obtained on application to the undersigned, upon payment of a deposit of £2 2s., which will be refunded on receipt of bona fide tender, and the return of all documents supplied. Plans may be inspected at the office of the Borough Surveyor, The Bridge House, High-street, Dartford.

Tender, in plain sealed envelope, endorsed "Tender for Public Conveniences, Market-street," but bearing no other mark or indication of the tenderer, must be delivered to me not later than 12 noon, 8th JUNE, 1959. Priced Bills of Quantities should be separately submitted in a sealed envelope, the Tenderer's name being clearly shown. These will be returned, unopened, if not required.

The Form of Contract will be that of the Royal Institute of British Architects, as adapted, and the successful tenderer will be required to comply with the Standing Orders of the Council, copies of which can be seen at my office.

The Council do not bind themselves to accept the lowest or any tender and the accepted tender will be subject to the approval of the Ministry of Housing and Local Government.

THOMAS ARMSTRONG,
Town Clerk.

Town Clerk's Office,
High-street,
Dartford.

URBAN DISTRICT COUNCIL OF CHESHAM.

24 ONE- AND TWO-BEDROOM FLATS.

TENDERS are invited for the ERECTION OF SIX BLOCKS OF FOUR FLATS on land off Deansway, Chesham.

Contractors intending to tender for this work should make application for the necessary documents by sending £2 2s. (to be refunded on submission of a bona fide tender and return of all documents) to E. S. North, Esq., F.R.I.B.A., Norfolk House, Station-road, Chesham, by 1st JUNE, 1959.

Tenders should be sent in plain sealed envelopes marked "Deansway Flats" to to reach me not later than 24th JUNE, 1959.

The Council do not undertake to accept the lowest or any tender.

W. I. NASH,
Clerk of the Council.

Council Offices,
Chesham,
Bucks.

CITY OF CANTERBURY.

HOUSING CONTRACTS.

FIXED-PRICE TENDERS are invited for the ERECTION OF HOUSES and OLD PEOPLE'S DWELLINGS as follows:—

1. 58 OLD PEOPLE'S UNITS AND 5 HOUSES at Union-street, New Ruttington-lane.
2. 26 OLD PEOPLE'S UNITS AND 3 HOUSES at Monastery-street.

Bills of Quantities can be obtained from the undersigned upon payment of two guineas deposit. Drawings and Conditions of Contract can be inspected at my office.

Tenders to be submitted in the endorsed envelope provided not later than 12 noon on FRIDAY, 12th JUNE, 1959.

JOHN L. BERBIERS,
City Architect.

Municipal Buildings,
Canterbury.

CITY OF PLYMOUTH.

TENDERS are invited from Building Contractors for:—

THE PROPOSED CONSTRUCTION OF 9 FLATS AFTER WAR DAMAGE AT CORNWALL-STREET, DEVONPORT.

Applications, accompanied by a deposit of Three Guineas, made payable to the Plymouth Corporation, to be made to the City Architect, Seymour-road, Plymouth, from whom Forms of Tender and Bills of Quantities may be obtained.

No application received after the 25th MAY, 1959, will be considered.

Deposits will be refunded on receipt of bona fide tenders not subsequently withdrawn.

COUNTY BOROUGH OF WALLASEY.

ERECTION OF:—

A. 42 DWELLINGS IN 4-STOREY MAISONETTES AND 6 GARAGES, Church-street, Wallasey.

B. 36 DWELLINGS IN 5-STOREY FLATS AND MAISONETTES, Ashville-road, Wallasey.

TENDERS to reach the undersigned by 1st JUNE (Contract A) and 11th JUNE (Contract B) are invited for the above-mentioned works. Bills of Quantities for both contracts will be available on and after 15th MAY, from the Borough Architect, Town Hall, Wallasey.

A. G. HARRISON,
Town Clerk.

COUNTY BOROUGH OF SWANSEA.

BOROUGH ARCHITECT'S DEPARTMENT.

SWANSEA TECHNICAL COLLEGE. NEW CHEMISTRY, PHYSICS AND METALLURGY BLOCK.

ELECTRICAL INSTALLATION.

Firms wishing to TENDER for the Electrical Installation at the above College are invited to submit their application to the Borough Architect, Guildhall, Swansea, on or before FRIDAY, 29th MAY, 1959.

Plans, Specification and Conditions of Contract can be obtained on application and deposit of five pounds. The documents will be sent only to those applicants who have had the necessary experience to carry out work of this nature and magnitude and the applicants are advised that they should give evidence of having previously carried out work of a similar character.

The deposit will be refunded after delivery of a bona fide tender (not subsequently withdrawn) and the return of all documents.

No guarantee is given that the lowest or any other Tender will be accepted.

T. B. BOWEN,
Town Clerk.

Guildhall,
Swansea.
5th May, 1959.

COUNTY BOROUGH OF SWANSEA.

BOROUGH ARCHITECT'S DEPARTMENT.

SWANSEA TECHNICAL COLLEGE. NEW CHEMISTRY, PHYSICS AND METALLURGY BLOCK.

HEATING, HOT AND COLD WATER, GAS AND ENGINEERING SERVICES.

Firms wishing to TENDER for the Heating, Hot and Cold Water, Gas and Engineering Services at the above College are invited to submit their application to the Borough Architect, Guildhall, Swansea, on or before FRIDAY, 29th MAY, 1959.

Plans, Specification and Conditions of Contract can be obtained on application and deposit of FIVE POUNDS. The documents will be sent only to those applicants who have had the necessary experience to carry out work of this nature and magnitude and the applicants are advised that they should give evidence of having previously carried out work of a similar character.

The deposit will be refunded after delivery of a bona fide tender (not subsequently withdrawn) and the return of all documents.

No guarantee is given that the lowest or any other Tender will be accepted.

T. B. BOWEN,
Town Clerk.

Guildhall,
Swansea.
5th May, 1959.

COUNTY BOROUGH OF CROYDON.

TENDERS are invited for BUILDING a SINGLE-STOREY EXTENSION to the ANTE-NATAL CLINIC, Lodge-road. Tender documents may be obtained from the Borough Engineer, Town Hall, Croydon.

Closing date for tenders, 12 noon on 6th JULY, 1959.

E. TABERNER,
Town Clerk.

ESHER URBAN DISTRICT COUNCIL.

EXTERNAL PAINTING OF 44 COUNCIL HOUSES.

CONTRACT NO. 282.

TENDERS are invited from painting contractors for the EXTERNAL REPAINTING of 28 HOUSES and 16 BUNGALOWS at Tartar Hill Estate, Cobham.

The Form of Tender, Conditions of Tender and Specification may be obtained from the Engineer and Surveyor, Council Offices, Esher, on payment of a deposit of one guinea, which will be refunded on receipt of a bona fide Tender, together with the return of all documents in good condition.

Tenders, on the prescribed form, enclosed in the envelope provided, endorsed "Contract No. 282—External Repainting" and bearing no name or mark indicating the sender, must be returned to the undersigned and received by him not later than 5 p.m., on FRIDAY, 5th JUNE, 1959.

The Council do not bind themselves to accept the lowest or any Tender.

FREDERICK EDWARDS,
Clerk of the Council.

Council Offices,
Esher.

COUNTY BOROUGH OF GREAT YARMOUTH.

HOSTELS FOR 60 AGED AND BLIND PERSONS.

MAGDALEN COLLEGE ESTATE, GORLESTON.

FIXED PRICE TENDERS are invited for the ERECTION of the above. Form of tender and Bills of Quantities may be obtained on or after the 4th JUNE, from the Borough Engineer's office where working drawings and conditions of contract may be inspected, upon payment of £2 2s. deposit, returnable upon receipt of a bona fide tender not subsequently withdrawn.

Tenders in the envelope provided must be delivered to me not later than first post THURSDAY, 2nd JULY, 1959. The Council does not bind itself to accept any tender.

FARRA CONWAY,
Town Clerk.

Town Hall,
Great Yarmouth.
11th May, 1959.

GUNNERSBURY PARK JOINT COMMITTEE.

The Joint Committee invites Tenders for the following Contract:—

THE INTERNAL ALTERATIONS TO INCREASE THE ACCOMMODATION AT THE FARM DRESSING ROOMS.

Application for form may be obtained from: The Borough Engineer, Town Hall, Acton, W.3.

Tenders in plain sealed envelopes endorsed "Dressing Rooms," must be delivered not later than 11th JUNE, 1959, to the Undersigned.

J. R. HIBBERT,
Clerk and Superintendent.

Gunnersbury Park,
Acton, W.3.
14th May, 1959.

COUNTY BOROUGH OF READING.

TO BUILDING CONTRACTORS.

FIRM PRICE TENDERS are invited for the ERECTION OF A MEZZANINE FLOOR with Ancillary Works in the Museum and Art Gallery, Blagrave-street, Reading. General Conditions may be inspected and tender form, specification and drawings obtained from the Borough Architect, Town Hall, Reading. Tenders to the Town Clerk, Town Hall, Reading, by 12 noon, TUESDAY, 9th JUNE, 1959. No tender considered unless enclosed in the endorsed envelope provided which shall bear no indication of the sender. The Corporation do not bind themselves to accept the lowest or any tender.

BOROUGH OF TOTTENHAM.

WEST GREEN-ROAD/MILTON-ROAD/WILLOW-WALK.
38 MAISONETTES.

Builders wishing to TENDER are requested to notify the Borough Engineer, Town Hall, Tottenham, N.15, not later than 2nd JUNE, 1959, quoting B22/5/59 together with £2 2s. deposit, refundable upon the submission of a bona fide tender. Plans may be seen at the Town Hall, N.15.

As soon as possible after the receipt of the deposit, copies of the Bills of Quantities, Form of Tender and all necessary documents will be forwarded to the applicants, stating the closing date for the receipt of tenders.

The Council do not bind themselves to accept the lowest or any tender.

M. LINDSAY TAYLOR,
Town Clerk.

Town Hall,
Tottenham, N.15.
12th MAY, 1959.

THE WORKSOP CO-OPERATIVE SOCIETY

LIMITED invite TENDERS for the third Contract on their Watgen-road Site. The works will include the whole of the ERECTION of the SUPERSTRUCTURE of the SHOP PREMISES, STORAGE and LAVATORY BLOCK comprising approximately 33,000 sq. ft. in three floors, in two sections. The first section to be completed and handed over to the Society, then the existing premises to be demolished and the second phase erected, including bored pile foundations, concrete floors, structural steelwork and traditional construction.

The Bills of Quantities and Forms of Tender are expected to be available in early June.

Applications are invited forthwith so as to ensure prompt despatch and should be made to the Society's Architects, Messrs. J. Haslam & Sons, Ryton Chambers, Newcastle-avenue, Worksop, Notts, accompanied by a deposit of £5 5s., which will be refunded on the receipt of a bona fide tender. Drawings may be inspected at the Architects' Office during normal working hours.

Tenders and a priced Bill of Quantities must be delivered to the undersigned, in envelopes which will be provided on or before a date which will be stated on the documents and which will be not less than 21 days from the availability of the Bills.

The Society do not bind themselves to accept the lowest or any tender.

Signed:
J. WILKINSON, Esq.,
Secretary.

Worksop Co-operative Society Ltd.,
16-20 Eastgate,
Worksop,
Notts.

COUNTY BOROUGH OF BLACKPOOL.

TENDERS are invited for the ERECTION of PARK SCHOOL, Whitegate-drive, Blackpool. The school is a single storey of approximately 14,000 ft. super.

Applications for documents should be made to the Architects: Grenfell, Baines and Hargreaves, F./A.R.I.B.A., A.M.T.P.I., 58 Topping-street, Blackpool, by 29th MAY, 1959.

Tenders to reach the Town Clerk, P.O. Box 11, Town Hall, Blackpool, by 2.30 p.m., FRIDAY, 22nd JUNE, 1959.

BOROUGH OF ILFORD.

ERECTION OF FOUR AGRICULTURAL WORKER'S COTTAGES.
ALDBOROUGH HOUSE/HATCH FARM, ILFORD.

TENDERS are invited for the ERECTION of FOUR AGRICULTURAL WORKER'S COTTAGES, Aldborough House/Hatch Farm, Ilford.

Applications in writing for the Form of Tender, Bills of Quantities and Drawings, which will be sent out on 2nd JUNE, 1959, should be made to the Borough Engineer, Town Hall, Ilford, accompanied by a deposit of £2 2s., which will be returned on receipt of a bona fide tender (not subsequently withdrawn) and all documents issued.

Conditions of Contract may be inspected at the Borough Engineer's Office during normal working hours.

Tenders in plain sealed envelopes bearing no name or mark indicating the sender, must be delivered to the Town Clerk, Town Hall, Ilford, not later than 4 p.m., on TUESDAY, 23rd JUNE, 1959. Priced Bills of Quantities must be returned at the same time as the Tender in the special envelope provided.

URBAN DISTRICT
COUNCIL OF BRAINTREE AND BOCKING.

ERECTION OF BUNGALOWS AND FLATS.

TENDERS are invited on a fixed-price basis for the ERECTION of the following DWELLINGS together with all external and ancillary works.
CONTRACT NO. 19:
4 FLATS AND 6 BUNGALOWS WITH OUTBUILDINGS AND SCREEN WALLS.

Bills of Quantity and Form of Tender may be obtained from the Engineer and Surveyor, Town Hall, Braintree, upon payment of a deposit of £2 2s. per contract, which will be refunded upon receipt of a bona fide tender together with all documents. Plans and detailed drawings may be inspected at the Surveyor's Department during normal office hours.

Tenders are to be returned separately in the envelope provided appropriately endorsed.

The Bills of Quantity are to be returned in the envelope provided.

All documents must be delivered to the undersigned at the Town Hall, Braintree, before 12 noon on FRIDAY, the 29th MAY, 1959.

The Council do not bind themselves to accept the lowest or any tender.

W. BALSON,
Clerk of the Council.

BOROUGH OF WARWICK.

SALTISFORD COMMON DEVELOPMENT.

ERECTION OF DWELLINGS AND COMMUNITY HALL.

TENDERS are invited for the CONSTRUCTION of:—
26 OLD PEOPLE'S BED SITTING-ROOM UNITS.
6 TWO-STOREY SINGLE-BED-ROOM UNITS.
10 TWO-STOREY 2- AND 3-BEDROOM UNITS.
WARDEN'S 3-BEDROOM BUNGALOW:
And a COMMUNITY HALL WITH ANCILLARY ACCOMMODATION.

Copies of the Bill of Quantities, General Conditions and Form of Tender may be obtained from the undersigned on payment of £2 2s. deposit, which will be refunded upon receipt of a bona fide tender. Drawings may be seen at this Office during normal working hours.

Tenders in plain sealed envelope endorsed "Saltisford Common Development," must reach the undersigned not later than first post on SATURDAY, the 20th JUNE, 1959.

HECTOR SETON BROWN,
A.M.I.C.E., A.M.I.W.E.,
Borough Engineer and Surveyor.
23 Jury-street,
Warwick.
14th May, 1959.

ESSEX COURT OF
QUARTER SESSIONS AND COUNTY COUNCIL OF ESSEX.

POLICE HOUSES.
1. Colchester—ONE PAIR WITH GARAGE.
2. Halstead—SINGLE HOUSE TYPE "D."
3. Dovercourt—ONE PAIR.
4. Wickford—ONE PAIR.
5. Clacton—FIVE PAIRS.

Contractors wishing to submit TENDERS for the ERECTION of the above should forward their names, from which panels will be chosen and provided with Bills of Quantities.

Contracts 1, 2, 3 and 4 are firm price. The estimated values of the contracts are: 1, £4,875; 2, £2,500; 3 and 4, £4,675; 5, £23,375.

Separate applications for each contract to reach the undersigned not later than 30th MAY, 1959.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.
County Hall,
Chelmsford.

COUNTY COUNCIL OF ESSEX.

RAYLEIGH COUNTY SECONDARY SCHOOL.

THREE DEMOUNTABLE CLASSROOMS.

Contractors wishing to submit a FIRM-PRICE TENDER for the ERECTION of the above should forward their names, from which a panel will be chosen and provided with Bills of Quantities.

The contract will comprise the construction of foundations, plumbing, drainage, finishings, external works, etc. The buildings will be of sectional wooden construction and will be supplied and erected by a nominated sub-contractor within the contract. The estimated value of the whole contract is £7,000. The private architect for this contract is F. G. Frizzell, 80 Portland-place, London, W.1.

Applications to reach the undersigned not later than 30th MAY, 1959.

H. CONOLLY, C.B.E., F.R.I.B.A.,
County Architect.
County Hall,
Chelmsford.

EAST SUFFOLK COUNTY COUNCIL.

LOWESTOFT COLLEGE FOR FURTHER EDUCATION—SECOND INSTALMENT.

The Council propose to invite TENDERS from selected builders, for the ERECTION OF THE SECOND INSTALMENT totalling 17,000 square feet, together with sundry works in the existing building.

Drawings, prepared under the direction of Mr. E. J. Cundliffe, A.R.I.B.A., County Architect, can be seen at the County Hall, Ipswich, or at the Borough Offices, High-street, Lowestoft, between 9 a.m. and 5 p.m.

Building Contractors wishing to be considered should submit their names to the County Architect, County Hall, Ipswich, before the 5th June, 1959. From the names submitted a number of builders will be selected and these will be furnished with Bills of Quantities, etc., on or about the 12th June, 1959; builders not selected will be notified at the same time. Tenders are required by the 9th JULY, 1959.

NORTH STAFFS. TECHNICAL COLLEGE.

TENDERS FOR THE COLLEGE OF PHYSICS AND CHEMISTRY.

Contractors desirous of submitting TENDERS for the ERECTION of the above-mentioned building are invited to apply for permission to Tender; such application, giving full particulars of comparable contracts carried out, should be addressed to J. R. Piggott, F.R.I.B.A., City Architect, Kingsway Chambers, Kingsway, Stoke-on-Trent, to reach him not later than 5th JUNE, 1959.

The proposed building consists of two teaching blocks, six storeys high. The foundation of both blocks are of pre-stressed concrete construction. The superstructure comprises reinforced concrete columns, beams and floors. The blocks will be faced with faience tiles and reinforced concrete. The two blocks will have an approximate floor area of 50,000 sq. ft.

Bills of Quantities will be issued on or about 12th JUNE, 1959, and will be required to be received by 6th JULY, 1959.

The list of contractors applying to tender will be submitted to the Board of Governors who will select a limited number of contractors to be invited to tender under the usual conditions.

HARRY TAYLOR,
Town Clerk.

SURREY COUNTY COUNCIL.

TENDERS FOR PROPOSED STAFF DINING ROOM AND KITCHEN AT COUNTY HALL, KINGSTON UPON THAMES.

The work consists of the erection in permanent construction of a TWO-STOREY BUILDING for a dining room, servery, with a kitchen on first floor.

Contractors wishing to Tender should apply to the County Architect, County Hall, Kingston upon Thames, by 29th MAY, 1959.

EAST SUFFOLK COUNTY COUNCIL.

ALTERATIONS AND ADDITIONS TO "CLONCURRY," FELIXSTOWE.

The Council propose to invite TENDERS from selected builders for EXTENSIONS totalling 3,000 square feet and ALTERATIONS TO THE EXISTING HOME FOR OLD PEOPLE.

Drawings, prepared under the direction of Mr. E. J. Cundliffe, A.R.I.B.A., County Architect, can be seen at the County Hall, Ipswich, between 9 a.m. and 5 p.m.

Building Contractors wishing to be considered should submit their names to the County Architect, County Hall, Ipswich, before the 5th June, 1959. From the names submitted a number of builders will be selected and these will be furnished with Bills of Quantities, etc., on or about the 12th June, 1959; builders not selected will be notified at the same time. Tenders are required by the 3rd JULY, 1959.

ISLE OF WIGHT COUNTY COUNCIL.

NEWPORT PRIORY SECONDARY GIRLS' SCHOOL.

Fixed price TENDERS invited for ALTERATIONS AND EXTENSIONS to existing premises at Nodehill, Newport, I.W. New work to include Assembly Hall, Kitchen and other ancillary accommodation, including complete new heating and electrical installations, having a floor area of approximately 8,250 feet super.

Applications for Bills of Quantities should be made to the County Architect, County Hall, Newport, I.W., not later than Monday, 8th June, 1959, accompanied by a deposit of three guineas made payable to the Isle of Wight County Council and returnable upon receipt of a bona fide Tender.

Working drawings may be inspected at the above office during usual working hours.

Tenders prepared in accordance with the instructions must reach the Clerk of the County Council, County Hall, Newport, I.W., not later than 10 a.m., on MONDAY, the 13th JULY, 1959.

BOROUGH OF SWINDON.

ERECTION OF TRADITIONAL DWELLINGS AND GARAGES.

TENDERS are to be invited shortly for the ERECTION of 70 TRADITIONAL DWELLINGS and 15 GARAGES in the Park North Neighbourhood.

Contractors who would wish to tender for this work are invited to submit their names to the Borough Architect, Civic Offices, Swindon, not later than the 29th MAY, 1959.

D. MURRAY JOHN,
Town Clerk.
Civic Offices,
Swindon.
13th May, 1959.

FARNHAM URBAN DISTRICT COUNCIL.

CONSTRUCTION OF ONE PAIR OF THREE-BEDROOMED HOUSES AT BRIGHTWELLS.

TENDERS are invited for the construction of the above-mentioned dwellings. Forms of Tender, Conditions of Contract and Specifications may be obtained from, and the Drawings inspected, at the office of the Council's Architects, Messrs. Maxwell Aylwin, F/A.R.I.B.A., 26 West-street, Farnham, Surrey, upon payment of a deposit of £2 which will be returned upon receipt of a bona fide Tender (not subsequently withdrawn) or upon the return of the documents.

Tenders must be delivered to the undersigned in a plain sealed envelope endorsed "Tender for Houses at Brightwells," not later than NOON on 3rd JUNE, 1959.

The Council does not bind itself to accept the lowest or any Tender.

A. A. MINNS,
Clerk of the Council.
Council Offices,
South-street,
Farnham, Surrey.

URBAN DISTRICT COUNCIL OF KIDSGROVE.

ERECTION OF 50 HOUSES.

Applications are invited from building contractors who wish to TENDER for the ERECTION OF 50 HOUSES on the Galleys Bank Estate.

Tender documents may be obtained from the Engineer and Surveyor, Town Hall, Kidsgrove, Staffs, on payment of a deposit of two guineas, which will be returned on receipt of a bona fide Tender and the return of all documents.

Tenders, in plain sealed envelopes, bearing no name or mark indicating the name of the sender and endorsed "Erection of houses" are to be returned to the undersigned not later than NOON on FRIDAY, 29th MAY, 1959.

The Council does not bind itself to accept the lowest or any Tender.

O. LLOYD HURST,
Clerk of the Council.
Town Hall,
Kidsgrove,
Staffs.
May, 1959.

EAST RIDING OF YORKSHIRE COUNTY COUNCIL.

TENDERS are invited for the ERECTION OF A THREE-FORM-ENTRY COUNTY SECONDARY SCHOOL at Filey.

Application for Bills of Quantities should be made to the County Architect, County Hall, Beverley, and should be accompanied by a deposit of £2 0s. 0d. Cheques to be made payable to the County Treasurer. It is anticipated that Tender documents will be available on the 25th May, 1959.

No Tender will be considered unless received by the undersigned not later than 4 p.m. on MONDAY, 6th JULY, 1959, in a plain sealed envelope supplied by the Council, endorsed "Tender: Erection of County Secondary School at Filey," and which shall not bear any name or mark indicating the sender.

THOMAS STEPHENSON,
Clerk of the Council.

ISLE OF ELY COUNTY COUNCIL.

COUNTY HEALTH COMMITTEE.

NEW JUNIOR OCCUPATION CENTRE:
MONEY BANK, WISBECH.

Building Contractors wishing to submit FIRM PRICE TENDERS for this job should apply to the County Architect, County Hall, March, Cambs, not later than 15th June, 1959.

The building will be of single-storey load bearing cross-wall construction with a proprietary timber roof and with a floor area of approximately 3,150 square feet.

Applications should be accompanied by a cheque for £2 2s. 0d. payable to the Isle of Ely County Council and which will be repayable on receipt of a bona fide Tender. Contractors who have not previously executed building contracts for the County Council should enclose particulars of works recently undertaken. Bills of Quantities will be available at the end of June and the last day for receipt of Tenders will be 20th JULY, 1959.

R. F. G. THURLOW,
Clerk of the County Council.
County Hall,
March.

WILLENHALL URBAN DISTRICT COUNCIL.
ARCHITECT'S DEPT.,
TOWN HALL,
WILLENHALL.

CONTRACT REFERENCE 52/4.
34 TWO-STOREY DWELLINGS,
WOOD-LANE NORTH SITE.
CONTRACT REFERENCE 52/5.
48 THREE-STOREY DWELLINGS,
WOOD-LANE NORTH SITE.

The Council wish to have erected 34 TWO-STOREY DWELLINGS and 48 THREE-STOREY DWELLINGS at Wood-lane, Willenhall. Contractors wishing to submit TENDERS for this work should apply, not later than WEDNESDAY, 3rd JUNE, 1959, to the Architect, Town Hall, Willenhall, for Tender documents enclosing a deposit of £3 3s. 0d. for each contract, which will be returned upon receipt of a bona fide Tender.

13th May, 1959.

COUNTY BOROUGH OF READING.

TO BUILDING CONTRACTORS.

Firm Price TENDERS are invited for the ERECTION OF A NEW CLOAK-ROOM, EXTENSION TO KITCHEN, AND MINOR INTERNAL ALTERATIONS at Westwood Girls' School. General Conditions and drawings may be inspected and Bills of Quantities, etc., obtained from the Borough Architect, Town Hall, Reading, on application to him, accompanied by a cheque for £2 2s. 0d. (made payable to the Reading Corporation) which will be refunded on receipt of a bona fide Tender not subsequently withdrawn. Tenders to Town Clerk, Town Hall, Reading, by NOON, FRIDAY, 19th JUNE, 1959. No Tender considered unless enclosed in the endorsed envelope provided which shall bear no indication of the sender. The Corporation do not bind themselves to accept the lowest or any Tender.

DRAYTON RURAL DISTRICT COUNCIL.

ERECTION OF 10 HOUSES AND BUNGALOWS AT CHESWARDINE.

The Council desires to obtain TENDERS for the ERECTION OF FOUR THREE-BEDROOM HOUSES AND SIX ONE-BEDROOM BUNGALOWS, with the necessary site works, at Cheswardine, in accordance with Plans, Specification and Bills of Quantities, prepared by the Council's Architects and Quantity Surveyors.

Contractors wishing to Tender are asked to submit their names and addresses, together with a deposit of £2 2s. 0d., to the undersigned not later than the 27th instant. All necessary Tender documents will then be sent to them. The deposit will be returned upon receipt of a bona fide Tender.

THOS. DUDLEY,
Clerk of the Council.
Council Offices,
Smithfield-road,
Market Drayton,
Shropshire.
13th May, 1959.

COUNTY BOROUGH OF CROYDON.

TENDERS are invited for IMPROVEMENTS TO SANITARY ACCOMMODATION at Beulah Primary School, Beulah-road.

Apply for specification, etc., to the Chief Education Office, Katharine-street, Croydon, with a deposit of £1 returnable on receipt of a bona fide Tender.

Tenders in plain sealed envelopes endorsed "Beulah Sanitary Accommodation" must be delivered to me by NOON on TUESDAY, 23rd JUNE, 1959.

E. TABERNER,
Town Clerk.
Town Hall,
Croydon.

COUNTY BOROUGH OF CROYDON.

TENDERS are invited for MODERNISING SANITARY ACCOMMODATION at the Norbury Manor Primary School, Stanford-road.

Apply for specification, etc., to the Chief Education Officer, Katharine-street, Croydon, with deposit of £1 returnable on receipt of a bona fide Tender.

Tenders in plain sealed envelopes endorsed "Norbury Manor Sanitary Accommodation" must be delivered to me by NOON on TUESDAY, the 23rd JUNE, 1959.

E. TABERNER,
Town Clerk.
Town Hall,
Croydon.

METROPOLITAN BOROUGH OF WANDSWORTH.

FLATS AT PUTNEY.

Contractors wishing to TENDER for ERECTION OF 24 FLATS IN FOUR THREE-STOREY BLOCKS at Portinscale-road (off West Hill) should submit names to me by WEDNESDAY, 3rd JUNE, 1959, giving details of experience, plant and technical and supervisory staff available together with names of two technical and two financial referees. Bills of quantities will be issued to selected contractors in due course.

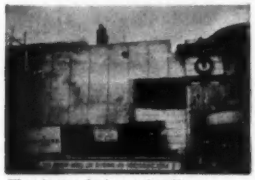
Drawings may be examined at office of Borough Engineer and Architect, Municipal Buildings, Wandsworth, S.W.18.

J. NOEL MARTIN,
Town Clerk.
Municipal Buildings,
Wandsworth, S.W.18.

Glamorock used to gay effect on the Classic cinema, Chelsea. Architects: Dowton & Hurst. Contractors: W. Phillips & Son Ltd.

GLAMOROCK TRANSLATES THE CLASSIC

into a modern building of unusual beauty and distinction



The cinema during restoration

Perhaps you've read or heard already that Glamorock is an entirely new facing medium for interior and exterior walls . . . that, being *natural* stone, it possesses all the beauty and weather-resistant qualities of a natural product . . . yet with outstanding economy and ease of application . . . that it will not craze or peel . . . that it resists dirt or smog . . . and that none of its 22 natural colours can ever fade, whether they are used separately or in any of an infinite number of exquisite colour blends.

Now, Architects, Designers and Contractors all over the country are proving these facts for themselves.

The transformation of the Classic cinema, Chelsea, is only one example of the way Glamorock is starting to change the face of Britain's buildings.

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Please contact either

GLAMOROCK LIMITED, Monza Street, Wapping Wall, London, E.1. Royal 6785/6 or:—
Montague L. Meyer Ltd. (*Branches in principal cities*), 14 Buckingham St., London, W.C.2.
Surface Protection Limited, 28 South Street, London, W.1.
or any builders' merchants.

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Here is another example of TRINASCOLIN (Linoleum) Flooring, laid by craftsmen of the Limmer & Trinidad Group of Companies who are specialists in all types of Decorative and Industrial Surfaces. Descriptive leaflets are available.

THE LIMMER & TRINIDAD LAKE ASPHALT CO. LTD.,
Trinidad Lake House, 232-242 Vauxhall Bridge Road, London, S.W.1.
Telephone: TATe Gallery 4388.

THE WESTERN TRINIDAD LAKE ASPHALT CO. LTD.,
Asphalt House, St. Mary Street, Cardiff. Cardiff 24731.

THE TRINIDAD LAKE ASPHALT CO. (NORTH WESTERN) LTD.,
India Buildings, Water Street, Liverpool, 2. Central 8591.

MEMBERS OF THE
LIMMER & TRINIDAD GROUP OF COMPANIES

COUNTY BOROUGH OF HASTINGS.

COLLEGE OF FURTHER EDUCATION.

SITE CLEARANCE.

FIXED-PRICE TENDERS are invited for SITE CLEARANCE WORK to be carried out in conjunction with a Piling Contract undertaken by Specialists. The site works consist mainly of tree felling and bulk excavation and are to be completed within three months.

Further particulars and forms of tender may be obtained from the Borough Engineer, 37 Wellington-square, Hastings, on payment of £2 2s., which will be returned on receipt of a bona fide tender and the return of all documents.

Tenders in an envelope to be provided must be delivered to the undersigned not later than 10 a.m., on TUESDAY, 23rd JUNE, 1959. The Corporation does not bind itself to accept the lowest or any tender.

N. P. LESTER,
Town Clerk.

Town Hall,
Hastings.

WHISTON RURAL DISTRICT COUNCIL.

FIXED-PRICE CONTRACT.

KNOWSLEY HOUSING SCHEME. PART I.

302 DWELLINGS.

The Council invite TENDERS for the ERECTION and COMPLETION of 302 DWELLINGS of traditional construction on a site at Sugar-lane, Knowsley, near Liverpool.

Form of Tender and Bills of Quantities may be obtained on application to the undersigned, upon payment of a deposit of £2 2s., which will be refunded on receipt of a bona fide Tender and the return of all documents supplied. Plans may be inspected at any time during office hours.

Tenders, in the envelope provided, bearing no mark or indication of the sender, must be received by the Clerk of the Council, at the undermentioned address, not later than 12 Noon on WEDNESDAY, 8th JULY, 1959.

WATSON GARRUTT, A.M.I.Struct.E.,
Engineer and Surveyor.

Council Offices,
Derby-lane,
Whiston,
Prescot,
Lancs.
15th May, 1959.

WOKING U. D. C.

DEMOLITION OF OLD CIVIL DEFENCE BUILDING, DUKE-STREET, WOKING.

TENDERS are invited for this work.

Documents from Engineer and Surveyor on receipt of two guineas' deposit, refundable on receipt bona fide Tender not subsequently withdrawn.

Tenders to Clerk of the Council by NOON, MONDAY, 29th JUNE, 1959.

URBAN DISTRICT COUNCIL OF TYLDESLEY.

EXTERNAL PAINTING CONTRACT.

10 BLOCKS OF FLATS (4/2-BEDROOM FLATS PER BLOCK);
and
22 HOUSES ON THE SHAKARLEY ESTATE;
and
38 HOUSES ON THE SALE-LANE ESTATE.

FIRM-PRICE TENDERS are invited for the EXTERNAL PAINTING of the above HOUSES and FLATS.

Specification and Form of Tender may be obtained from the Housing Superintendent, Town Hall, Tyldesley, on receipt of £2 2s., which will be refunded on receipt of a bona fide Tender.

Completed Forms of Tender to be delivered to the undersigned in a plain sealed envelope endorsed "Painting Contract," not later than 12th JUNE, 1959.

The Council do not bind themselves to accept the lowest or any tender.

RICHARD F. WILSON,
Clerk of the Council.

BOROUGH OF CHELTENHAM.

HOUSING COMMITTEE.

TEWKESBURY-ROAD/SWINDON-ROAD RE-DEVELOPMENT.

TENDERS are invited from Building Contractors for the ERECTION OF 38 DWELLINGS, comprising 20 two-storey houses and 18 three-storey flats, together with Outbuildings and External Services.

Application for Bills of Quantities and Form of Tender to be made to the undersigned not later than the 3rd JUNE, 1959, accompanied by a deposit of £3 3s. (made payable to the Cheltenham Corporation), which will be refunded on receipt of a bona fide Tender not subsequently withdrawn.

The Council does not bind itself to accept the lowest or any Tender.

G. GOULD MARSLAND, M.B.E.,
Borough Engineer.

P.O. Box 12,
Municipal Offices,
Cheltenham.
WR/MH. 14.5.59.

DURHAM COUNTY COUNCIL.

TENDERS invited:—

NEW COUNTY OFFICES, DURHAM.

Nominated Sub-Contractors—(a) Hardwood Floors; (b) Rubber, Lino and PVC Flooring; (c) Office Partitioning; (d) Felt and Copper Roofing; (e) Laboratory Furniture and Architectural Joinery; (f) Box Section Aluminium Windows and Curtain Walling; (g) Architectural Metalwork and Sheet Metal Gates; (h) Mosaic Work; (i) Lifting Beams and Tackle; (j) Single Stack Plumbing.

Nominated Suppliers—(a) Sanitary Ware; (b) Roof Lights; (c) Flush Doors; (d) Precast Mosaic Panels; (e) Exposed Aggregated Panels; (f) Gates and Railings; (g) Ironmongery.

Pelton County and Modern Schools: ADDITIONS AND ALTERATIONS TO PROVIDE A KITCHEN, SMALL HALL AND ASSEMBLY HALL/GYMNASIUM.

Winlaton Modern School: ADAPTATION OF FORMER WINLATON C.E. SCHOOL.

Application for further details to County Architect, South-street, Durham, not later than 3rd JUNE, 1959.

J. E. HOPE,
Clerk of the County Council.

Shire Hall,
Durham.

EAST SUFFOLK COUNTY COUNCIL.

CAPEL ST. MARY V.C.P. SCHOOL.

The Council propose to invite tenders from selected builders, for works to the site, foundations, services, etc., in connection with the ERECTION OF A PREFABRICATED TIMBER, 2-CLASS PRIMARY SCHOOL.

Drawings, prepared under the direction of Mr. E. J. Cundliffe, A.R.I.B.A., County Architect, can be seen at the County Hall, Ipswich, between 9 a.m. and 5 p.m.

Building Contractors wishing to tender should submit their names to the County Architect, County Hall, Ipswich, before the 1st JUNE, 1959. From the names submitted a number of builders will be selected and these will be furnished with Bills of Quantities, etc., on or about the 8th June, 1959; builders not selected will be notified at the same time. Tenders are required by the 30th June, 1959.

PUBLIC APPOINTMENTS

COUNTY BOROUGH OF SOUTHAMPTON.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the following permanent positions:—

(a) ASSISTANT PLANNING OFFICER (Development Control), Special Grade (£750-£1,030) to assist with Development Control, examining applications, site inspections, interviews with applicants, preparation of reports.

Applicants should be A.M.T.P.I., Architectural qualification or experience an advantage.

(b) PLANNING ASSISTANT, Grade A.P.T. II (£765-£880) for Survey, Development Plan review, Redevelopment Areas and Compulsory Purchase Orders. Candidates should have passed the Intermediate Examination of the Town Planning Institute or other appropriate body.

(c) ARCHITECTURAL ASSISTANT, Grade I (£610-£765).

Commencing salary according to experience; candidates should state their housing needs.

Application forms from the Borough Architect, Civic Centre, Southampton, returnable by 6th JUNE, 1959.

BOROUGH OF NEWCASTLE UNDER LYME.

REQUIRES:
TWO ASSISTANT QUANTITY SURVEYORS.
GRADE A.P.T. II (£765-£880 p.a.)

Commencing salaries will be in accordance with qualifications and experience.

The department has contracts pending for several new schools in addition to housing and general works.

The Council will consider the provision of housing accommodation in suitable cases.

Application Forms may be obtained from the Borough Engineer and Surveyor, Lancaster Building, Newcastle, Staffs. and must be returned to him not later than MONDAY, 1st JUNE, 1959.

C. J. MORTON,
Town Clerk.

GLOUCESTERSHIRE COUNTY COUNCIL.

ARCHITECTURAL ASSISTANTS (QUALIFYING CLASS).

A.P.T. I (£610-£765), A.P.T. II (£765-£880). Applicants must have passed Intermediate Examination R.I.B.A. N.J.C. Service Conditions, superannuation, medical examination.

Apply giving age, present position, salary and date of appointment, details of previous appointments and names and addresses of two persons for reference, to County Architect, Shire Hall, Gloucester, by 30th MAY.

GUY H. DAVIS,
Clerk of the County Council.

LONDON COUNTY COUNCIL.

Vacancies for ENGINEERING ASSISTANTS (up to £860) and ENGINEERS, Grade III (up to £1,090) (scales at present under review) in:—

(a) STRUCTURAL ENGINEERING DIVISION—Extensive programme includes multi-storey flats, schools, offices, warehouses and other buildings; and,

(b) DISTRICT SURVEYORS' SERVICE—In districts coinciding, with one exception, with Metropolitan Borough Boundaries. Work mainly outside involving negotiations with architects, engineers and surveyors and supervision of works in progress. Good prospects in both of these aspects of the Council's work.

Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council, AR/EK/45/59, County Hall, S.E.1. (925.)

NEWCASTLE REGIONAL HOSPITAL BOARD.

REGIONAL ARCHITECT'S DEPARTMENT.

During the next two years the Board plans to spend several millions on hospital developments and larger programmes are being planned to follow. The present building programme includes a wide variety of projects, ranging from houses to hospitals, and (since a large hospital resembles a small town) affords ample opportunity for gaining both general and hospital experience simultaneously.

The following posts in the Regional Architect's Department are at present open to applicants. The salary scales quoted include interim increases pending completion of a current Health Service review of salaries.

(i) ASSISTANT ARCHITECTS (4). Salary £730 x £25(2) x £30(2) x £35 (5) x £40(1)-£1,055.

Applicants should be registered architects and have had experience of the planning and construction of public buildings. The commencing salary will be fixed within the Grade by reference to relevant experience and to age.

(ii) ARCHITECTURAL ASSISTANT. Salary £545 at age 21 x £20(3) x £25(4) x £30(2) to £765.

Applicants should have passed the Intermediate Examination of the R.I.B.A., or an examination recognised by the Institute as equivalent, and some practical experience is desirable.

The commencing salary within the grade will depend upon the applicant's age and practical experience, but will not exceed £605.

(iii) ARCHITECTURAL DRAUGHTSMAN. Salary £445 x £25(5) x £30(3)-£660.

Applicants should have had previous experience in an architect's drawing office and be neat and quick draughtsmen.

Evening study facilities are available at King's College of Durham University in Newcastle.

Applications, stating age, qualifications, past and present appointments, present salary and details of experience and training, together with the names of three referees (of whom at least two should be architects) should be forwarded to the Secretary to the Board, Benfield-road, Newcastle-upon-Tyne, 6, not later than 28th MAY, 1959.

SURREY EDUCATION COMMITTEE.

EWELL COUNTY TECHNICAL COLLEGE,
REIGATE-ROAD, EWELL.

Required 1st September, 1959:—

BUILDING DEPARTMENT.

1. GRADUATE TEACHER for Building Science to Ordinary National Diploma and Certificate levels. Opportunity to develop techniques for materials testing and to provide special courses for industry. Salary, £682 10s.-£1,076 5s. plus London Allowance.

2. TEACHER for Carpentry and Joinery to Final C. & G. level. Teaching experience and ancillary subjects an advantage. Salary, £498 15s.-£945 plus London Allowance.

Stamped envelope for application forms and particulars from the Principal, to be returned within 14 days.

CITY OF WINCHESTER.

Applications are invited for the post of ARCHITECTURAL ASSISTANT in the City Engineer's Office (C. C. Steptoe, A.R.I.B.A., Chief Assistant Architect). It is essential that the applicant should be a neat and accurate draughtsman and have had previous experience in an architect's office. Salary, according to experience, will be within Grade I of the National Scales, and the appointment is subject to the Local Government Superannuation Act.

Applications, stating age and details of experience, together with the names and addresses of two referees, should be addressed to the City Engineer, Guildhall, Winchester, and should reach his office not later than MONDAY, 1st JUNE, 1959.

Canvassing, either directly or indirectly will disqualify.

R. H. McCALL,
Town Clerk.

Guildhall,
Winchester.
10th April, 1959.

COUNTY BOROUGH OF READING.

Applications invited for the appointment of ASSISTANT ARCHITECTS who have passed Parts I and II, R.I.B.A. Final of Special Final Examination or their equivalent and have had at least five years' experience. Salary range at present £750 x £40-£1,030, according to experience. Posts permanent and appointment subject to N.J.C. Conditions. Housing accommodation will be considered. Applications, stating age, qualifications and experience, together with names and addresses of two referees, to Borough Architect, P.O. Box 17, Town Hall, Reading, not later than 1st JUNE, 1959.

SURREY COUNTY COUNCIL.

Applications invited for following appointments:—

1. GRADE V (£1,220-£1,375 p.a. plus £30 p.a. London Allowance):—

ARCHITECTS. In addition to a minimum of 10 years' experience, after qualifying as Associate R.I.B.A., and general architectural ability, candidates must be capable of leading a small team dealing with medium and large scale contracts.

QUANTITY SURVEYORS. Must be qualified A.R.I.C.S. with experience as Senior Taker-off and of final accounts, estimating, cost analysis and pricing, including directing and supervising team of qualified and junior staff.

STRUCTURAL ENGINEERS. Must have at least 10 years' experience, after qualifying as Associate Member I.Struct.E., in the design and detailing of steelwork and/or reinforced concrete for medium to large scale contracts. Successful applicant must be capable of leading a small team of assistants.

HEATING AND VENTILATING ENGINEERS. Must have at least 10 years' experience, after qualifying as Associate Member I.H. & V.E., in the design of large heating, ventilating, hot water supply and gas service installations. The successful applicant must be capable of taking charge of works from beginning to final completion.

2. SPECIAL GRADE (£750-£1,030 p.a. plus £30 p.a. London Allowance, subject to revision):—

ARCHITECTS. Must be A.R.I.B.A. and experienced in design and detailing.

QUANTITY SURVEYORS. Commencing salary in accordance with experience. Must be Chartered Quantity Surveyors with experience on major contracts, including adjustment of final accounts.

STRUCTURAL ENGINEERS. Qualified Civil or Structural Engineer, experienced in design and detailing in steel and/or reinforced concrete.

HEATING AND VENTILATING ENGINEERS. Must be A.M.I.H. & V.E. and experienced in heating and ventilating installations. Preferably experienced in testing boiler efficiencies.

ELECTRICAL ENGINEERS. Must be A.M.I.E.E. and experienced in electrical services in buildings.

BUILDING SURVEYORS. Must be A.R.I.C.S. (Bldg. Sub. Div.) Capable drafting specifications in all trades, preparation Schedules of Dilapidations, detailed estimates for general maintenance works and surveys of properties.

3. GRADE II (£765-£880 p.a. plus up to £30 p.a. London Allowance, according to age):—

ARCHITECTS. Must be of good general training, preference given those who have passed Inter. R.I.B.A.

ENGINEERING ASSISTANTS. With practical experience of erection of heating and h.w.s. installations. Experienced in design of small systems, specifying and supervising work to be carried out by Contractors in replacement of heating and h.w.s. boilers, pumps, kitchen equipment, etc., general maintenance of services and minor alterations and additions to existing installations.

Full details, present salary and 3 copy testimonials to County Architect, County Hall, Kingston, by 30th MAY, 1959.

The County Council have adopted a five-day week.

THE UNITED NEWCASTLE-UPON-TYNE HOSPITALS.

Applications are invited for the appointment of an ASSISTANT ARCHITECT in the Staff Architect's Department of the above Group of Hospitals.

The salary scale £730 x £25(2) x £30(2) x £35(2) x £40(1)-£1,055 p.a.

The commencing salary will be fixed within the Grade by reference to relevant experience and to age.

The successful applicant will assist in the preparation of a Master Plan of future building development for the Royal Victorian Infirmary, Newcastle, and he will also be required to carry out under the supervision of the Staff Architect certain building schemes for which the department is responsible.

Applicants must be Registered Architects and Associate members of the R.I.B.A., with a sound knowledge of the planning and construction of public buildings. Experience in hospital building work would be of advantage.

Applications stating age, qualifications, past and present appointments, present salary and details of experience and training, together with the names of three referees (two of whom should be architects) should be forwarded to the House Governor and Secretary, Royal Victoria Infirmary, Newcastle-upon-Tyne, by not later than 30th JUNE, 1959.

BOROUGH OF WILLESDEN.

Applications are invited for the appointment in the Building Works Section of the Borough Engineer and Surveyor's Department of INCENTIVES OFFICER, salary within Grade A.P.T. I (£610-£765 p.a.) plus London Weighting, maximum £30 p.a.

Candidates should have had experience in Bonus Surveying on new buildings including measurement and agreeing targets.

The Council cannot assist with housing.

Further details and application forms obtainable from the Borough Engineer and Surveyor, Town Hall, Dyne-road, Kilburn, N.W.6.

(Signed) R. S. FORSTER,
Town Clerk.

12th May, 1959.

COUNTY BOROUGH OF WALLASEY.

APPOINTMENT OF TOWN PLANNING ASSISTANT, GRADE A.P.T. IV.

£1,065 x £55 x £50 x £50 to £1,220.

Applications are invited for the above appointment in the Borough Surveyor's Department at a salary within the above Grade.

Applicants must have experience in a Planning, Architectural or Municipal Engineer's Office.

Full particulars and Form of Application, which must be returned by MONDAY, 15th JUNE, 1959, may be obtained from the Borough Surveyor, Town Hall, Wallasey.

A. G. HARRISON,
Town Clerk.

STEVENAGE DEVELOPMENT CORPORATION.

Applications are invited for a post in the Chief Architect's Department, of ASSISTANT QUANTITY SURVEYOR, on New Towns Salary Grade A.P.T. II-III, £631-£811 p.a. Commencing salary will be fixed according to qualifications and experience.

Candidates should be suitably qualified and have experience in "working-up" Bills of Quantities, measurement of variations, etc.

The successful candidate will be engaged on work of an interesting nature relating to the building of a New Town, comprising Shopping Centres, Housing and Multi-storey Flats, Office Blocks and Industrial Buildings.

Housing accommodation will be available in due course in appropriate cases.

Applications giving details of qualification, experience and the names of two referees should be sent to Chief Administrative Officer, Aston House, Nr. Stevenage, Herts, not later than MONDAY, 1st JUNE, 1959.

BOROUGH OF BEXLEY.

Applications are invited for the following posts in the Borough Engineer and Surveyor's Department:—

(a) TEMPORARY ASSISTANT QUANTITY SURVEYOR.

Salary within Grade A.P.T. II (£765 to £880 per annum) plus London Weighting. Candidates should preferably have passed the intermediate R.I.C.S. (Quantities) and have had considerable experience with housing schemes.

(b) ARCHITECTURAL ASSISTANT.

Salary within Grade A.P.T. I (£610-£765 per annum) plus London Weighting. Preference will be given to candidates who have passed the intermediate examination of the R.I.B.A. and have had experience in housing and school projects.

The Council may be prepared to assist in the provision of housing accommodation only for appointment (b). Forms of application and conditions of appointment are obtainable from the Borough Engineer, West Lodge, Broadway, Bexleyheath, Kent, to whom completed applications must be returned by the 1st JUNE, 1959. Canvassing will disqualify.

ARTHUR GOLDFINCH,
Town Clerk.

METROPOLITAN BOROUGH OF SOUTHWARK.

Applications are invited for appointment of CLERK OF WORKS (unestablished) in the Borough Engineer and Surveyor's Department.

Salary: Grade A.P.T. II (£755 to £875 p.a. less £10 if under 26 years of age). An improved scale is due for consideration shortly.

The successful applicant will be required to supervise contracts for the construction of houses and flats in multi-storey blocks. A thorough knowledge of the building trade is essential, and applicants should be experienced in handling large contracts.

The appointment is subject to the Council's Conditions of Service of Officers. No housing provided. Canvassing will disqualify.

Applications on forms obtainable from me must be returned by NOON on 3rd JUNE, 1959.

E. J. PITT,
Town Clerk.

Southwark Town Hall,
(Near Elephant & Castle Underground Station),
Walworth-road, S.E.17.
8th May, 1959.

SHEFFIELD REGIONAL HOSPITAL BOARD.

ARCHITECTURAL STAFF.

Applications are invited for the posts off:—

(a) SENIOR ASSISTANT ARCHITECT: Commencing salary £1,050 on the scale £1,050 x £30(3) x £35(3)-£1,245.

(b) ASSISTANT ARCHITECT: Salary according to age and experience within the scale £730-£1,055 per annum.

Candidates must be Registered Architects and have passed the requisite examinations. Appointment is subject to Whitley Council terms and conditions of service, to the National Health Service (Superannuation) Regulations, and to one month's notice on either side. Applications, together with the names of three referees, should be sent to the Secretary, Sheffield Regional Hospital Board, Fulwood House, Old Fulwood-road, Sheffield, 10, not later than the 15th JUNE, 1959.

COUNTY BOROUGH OF DEWSBURY.

BOROUGH ARCHITECT AND BUILDINGS SURVEYOR'S DEPARTMENT.

Applications are invited for the following appointments:—

(a) ASSISTANT QUANTITY SURVEYOR, Special Grade.

(b) TOWN PLANNING ASSISTANT, A.P.T. Grade I.

(c) ARCHITECTURAL ASSISTANT, A.P.T. Grade I.

The commencing salaries will be fixed within the scope of the grades stated according to qualifications and experience, i.e. Special Grade £750-£1,030 per annum at present but subject to review shortly, and A.P.T. Grade I, £610-£765 p.a. Applicants for appointment (a) must have passed the final examination of the R.I.C.S.

Housing accommodation may be made available if required.

The appointments will be subject to one month's notice on either side and to the provisions of the Local Government Superannuation Acts.

Applications stating age, education, qualifications, full particulars of training and experience, together with copies of two recent testimonials, should be sent to the undersigned not later than MONDAY, 1st JUNE, 1959, in envelopes endorsed "Appointment of ——."

A. NORMAN JAMES,
Town Clerk.

Town Hall,
Dewsbury.
6th May, 1959.

CITY OF OXFORD.

CITY ARCHITECT AND PLANNING OFFICER'S DEPARTMENT.

Applications are invited for the following posts in the Department which has a very full programme of interesting work in hand including redevelopment schemes in the centre of the City, involving multi-storey Housing and Garage schemes; a new Shopping Centre and Office buildings, in addition to the normal programme of Schools, Housing and Health Buildings.

A high standard of design ability and a keen interest in contemporary architecture are essential. Assistants are encouraged to control their own contracts from Sketch Design stage onwards.

(1) ONE CHIEF ARCHITECTURAL ASSISTANT, Grade A.P.T. V (£1,220-£1,375).

Must have had considerable knowledge of the running of large contracts and competent to lead and inspire a team.

(2) TWO SENIOR ARCHITECTURAL ASSISTANTS, A.P.T. IV (£1,065-£1,220).

Should have a wide knowledge of modern methods of construction and contract procedure.

(3) THREE ARCHITECTURAL ASSISTANTS, Special/A.P.T. IV, according to experience.

A high standard of design and sound knowledge of construction are required.

Candidates for all posts should be A.R.I.B.A. and, for post (1) a town planning qualification would be an advantage.

Housing Accommodation will be made available if required for all posts.

Further particulars and application form can be obtained from E. G. Chandler, A.R.I.B.A., M.T.P.I., City Architect and Planning Officer, Town Hall, Oxford, and are to be returned completed by 6th JUNE, 1959.

HARRY PLOWMAN,
Town Clerk.

Town Hall,
Oxford.

WEST SUFFOLK COUNTY COUNCIL.

ENGINEER (in charge of Heating and Electrical Section), A.P.T. IV (£1,065-£1,220); National Joint Council Service Conditions; post pensionable; medical examination.

Applicants must hold appropriate professional qualifications and be experienced in the design and supervision of heating systems; preference will be given to applicants with experience in design of electric lighting and power installations.

Apply to County Architect, 13 Westgate-street, Bury St. Edmunds, for application form, also particulars of staff house and subsistence allowance; application to be returned by 1st JUNE, 1959.

SOUTH EASTERN ELECTRICITY BOARD.

ARCHITECTURAL ASSISTANT—Surveyor's Section, Headquarters.

Salary £795 x £25-£870 under N.J.C. Grade 4. Superannuable. Applicants should be capable of preparing drawings and estimates for garages, offices, stores and substations.

Preference will be given to applicants who are members of the R.I.B.A. or I.A.A.S.

Applications quoting BDR, and naming two referees to Surveyor, Seeboard, 10 Queen's-gardens, Hove, 3, Sussex, by 3rd JUNE, 1959.

GEORGE WRAY,
Secretary.

HAMPSHIRE COUNTY COUNCIL.

ARCHITECTURAL ASSISTANT (Special Scale £750-£1,030, under review) required for pensionable post in County Architect's Department. Candidates must have passed Parts I and II of the R.I.B.A. Final Examination, or equivalent, and have had at least five years' experience (including the period spent in theoretical training). The commencing salary will be determined by experience and ability. Assistance given with removal and other expenses in approved cases.

Application forms (send S.A.E.), returnable by 3rd JUNE, from the Clerk of the County Council, The Castle, Winchester.

ARCHITECTS AND BUILDING SURVEYORS.

The L.C.C. (Architect's Department) requires ARCHITECTS and BUILDING SURVEYORS interested in modernisation and conversion of older blocks of Council Flats which are being undertaken in the General Division. Up to £1,090 according to qualifications and experience. Salaries at present under review. Holiday arrangements respected. Application form and particulars from Hubert Bennett, F.R.I.B.A., Architect to Council, AR/EK/48/59, County Hall, S.E.1. (1036)

SCUNTHORPE BOROUGH COUNCIL

have a vacancy in the Surveyor's Department for:—

QUANTITY SURVEYING ASSISTANT, A.P.T.I. (£610 to £765 p.a.).

Housing accommodation is available, and applications giving experience and qualifications, together with the names of two referees should be submitted to the Town Clerk, 34 High-street, Scunthorpe, not later than MONDAY, the 8th JUNE, 1959.

EAST SUFFOLK COUNTY COUNCIL.

ASSISTANT ARCHITECTS.

A.P.T. GRADE IV: £1,065-£1,220.

Applications are invited from qualified ARCHITECTS who have good general experience in design and construction, and are capable of taking charge of large projects with the minimum of supervision.

The starting salary in each case will be fixed according to qualifications and experience, and removal expenses will be paid in approved cases. The appointments are subject to the provisions of the Superannuation Acts and selected candidates will be required to pass a medical examination.

The posts offer interesting and responsible work in connection with the Council's extensive programme of school and other building.

Applications, stating age, qualifications, experience and present employment, together with copies of two recent testimonials, must be delivered to the County Architect, Mr. E. J. Cundliffe, A.R.I.B.A., County Hall, Ipswich, by the 26th MAY, 1959.

CITY OF CANTERBURY.

ARCHITECTURAL ASSISTANT. A vacancy exists in the General Works Section of the City Architect's Department; salary scale within the Grades £610-£1,030, according to qualifications and experience. Applications are required from assistants with varied experience, capable of good detailing and presentation and some experience in specification writing.

Applications, with the names of two referees, to the City Architect and Planning Officer, Mr. J. L. Berbiers, F.R.I.B.A., A.M.T.P.I., not later than FRIDAY, 29th MAY, 1959. Canvassing will disqualify.

J. BOYLE,
Town Clerk.

Municipal Buildings,
Canterbury.

METROPOLITAN BOROUGH OF SOUTHWARK.

Applications are invited for the following appointments to the Borough Engineer and Surveyor's Department:—

(a) ASSISTANT QUANTITY SURVEYOR, A.P.T. IV (£1,055 to £1,205).

Candidates must be qualified and experienced for duties, including Taking-off quantities for large housing schemes, post-Tender measuring services and final accounts.

(b) ASSISTANT QUANTITY SURVEYOR, A.P.T. III (£875 to £1,055).

Candidates must be qualified and experienced to handle measurement of works in progress and valuation for interim certificates, together with some Taking-off, abstracting and billing and final measurement.

(c) ASSISTANT QUANTITY SURVEYOR, A.P.T. II (£755 to £875).

Candidates must be qualified to Intermediate level and experienced to handle measurement of works in progress and valuation for interim certificates, together with some abstracting and billing and final measurement.

An improved salary scale is due for consideration shortly.

The appointments are subject to the Council's Conditions of Service of Officers. No housing provided. Canvassing will disqualify.

Further details and application forms are obtainable from the undersigned and must be returned by FIRST POST on 3rd JUNE, 1959.

Please indicate clearly the post and grade applied for.

E. J. PITT,
Town Clerk.

Southwark Town Hall,
(Near Elephant & Castle Underground Station),
Walworth-road, S.E.17.
8th May, 1959.

COUNTY BOROUGH OF SUNDERLAND.

CHIEF ASSISTANT ARCHITECTS—Grade A.P.T. IV (maximum £1,220).

SENIOR ARCHITECTURAL ASSISTANTS—A.P.T. II (maximum £880).

Applications are invited for the above posts. Particulars of the appointments may be obtained from the Borough Architect, Grange House, Stockton-road, Sunderland. Applications must be addressed to me and received at my office, Town Hall, not later than 12th JUNE, 1959.

Canvassing will disqualify.

G. S. McINTIRE,
Town Clerk.

JUNIOR ARCHITECTURAL ASSISTANT

Required by HACKNEY BOROUGH COUNCIL. Salary grade A.P.T. I (£610-£765 p.a.) London Weighting allowance £20 p.a. at age 21, £30 p.a. at age 26. Commencing salary according to training, qualifications and experience. Candidates must be Students of the R.I.B.A. or Probationers with a good architectural training and several years' experience in an architect's office. Apply Town Clerk, Town Hall, Hackney, E.8, for application form returnable by 9 a.m. 8th JUNE, 1959.

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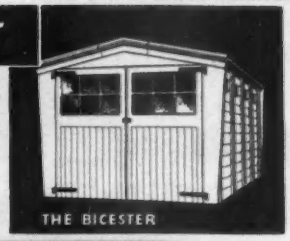

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CITY AND COUNTY OF THE CITY OF EXETER.

CITY ARCHITECT'S DEPARTMENT.

Vacancy on the established staff for SENIOR ASSISTANT ARCHITECT. Salary within Special Grade (£750 to £1,030). This grade is at present under review. The provision of housing accommodation will be considered. The successful applicant's removal expenses will be paid.

Applicants must have passed Parts I and II of the R.I.B.A. Final Examination or Special Final or equivalent, and the entry point on the grade will depend on experience.

Preference will be given to those with experience in the design and construction of Civic Buildings.

The appointment is subject to one month's notice on either side and to the provisions of the Local Government Superannuation Acts. The successful applicant will be required to pass a medical examination.

Applications, stating age, qualifications, previous and present appointments and salaries, full details of experience and earliest possible date when available, should be sent to the City Architect, Municipal Offices, Exeter, not later than the 30th MAY, 1959.

BOROUGH OF STOCKTON-ON-TEES.

BOROUGH ARCHITECT'S DEPARTMENT.

Applications are invited for the appointment of ASSISTANT ARCHITECT at a salary of A.P.T. III (£880-£1,065) or the new Special Grade.

Forms of application from the Borough Architect, 28 The Square, Stockton-on-Tees to be returned not later than the 6th JUNE, 1959.

Housing accommodation will be available for married applicants.

JOHN B. HAWORTH,
Town Clerk.

Barclays Bank Chambers,
49 High-street,
Stockton-on-Tees.

CITY OF ROCHESTER.

CHIEF ARCHITECTURAL ASSISTANT.

Applications are invited for the above appointment in the City Surveyor's Department on A.P.T. IV (£1,065-£1,220).

Candidates should be Associates of the Royal Institute of British Architects, and administrative ability is essential in addition to a good general experience, particularly in the preparation of drawings and specifications for municipal housing and buildings, including shops and flats. The commencing salary will be according to qualifications and experience.

There is a varied programme of work, including the redevelopment of clearance areas and the development of a large area added to the City.

In an appropriate case the City Council will provide the successful candidate with suitable housing accommodation, and will be prepared to refund removal expenses after 12 months' service.

The appointment will be subject to the National Scheme of Conditions of Service, the Local Government Superannuation Acts, and a satisfactory medical examination; one month's notice on either side.

Applications, stating age, qualifications and experience, together with the names and addresses of three persons to whom reference may be made, should be delivered to the City Surveyor, 66 Maidstone-road, Rochester, not later than MONDAY, 8th JUNE, 1959.

PHILIP H. BARTLETT,
Town Clerk.

Guildhall,
Rochester.
6th May, 1959.

ADMINISTRATIVE COUNTY OF LEICESTER.

LAND SURVEYING ASSISTANT, £765-£880 or £750-£1,030 according to qualifications. Candidates should be experienced in chain surveying and levelling. A.R.I.C.S. preferred. Subsistence allowance and removal expenses may be paid to a married man.

Apply by 4th JUNE on forms obtainable from County Architect, 123 London road, Leicester.

METROPOLITAN BOROUGH OF SOUTHWARK.

Applications are invited for the following appointments to the Borough Engineer and Surveyor's Department:—

(a) ARCHITECTURAL ASSISTANT: A.P.T. V (£1,205 to £1,355).

Candidates must be Associates of the Royal Institute of British Architects with considerable experience and capable of leading a team engaged upon a large and varied programme of new housing (mixed development) and other schemes. Commencing salary £1,205 per annum.

(b) ARCHITECTURAL ASSISTANT: A.P.T. IV (£1,055 to £1,205).

Candidates must be Associates of the Royal Institute of British Architects and well experienced and able to take charge of a design group concerned with a large programme of mixed housing development and possibly other schemes.

(c) ARCHITECTURAL ASSISTANTS: A.P.T. I (£605 to £755) or A.P.T. II (£755 to £875).

An improved salary scale is due for consideration shortly.

The appointments are subject to the Council's Conditions of Service of Officers. No housing provided. Canvassing will disqualify.

Further details and application forms are obtainable from the undersigned and must be returned by first post on 3rd JUNE, 1959.

Please indicate clearly the post and grade applied for.

E. J. PITT,
Town Clerk.

Southwark Town Hall
(near Elephant and Castle Underground Station),
Walworth-road, S.E.17.
8th May, 1959.

CITY OF CANTERBURY.

Applications are invited for the appointment of CHIEF TOWN PLANNING ASSISTANT, Special Scale (£750-£1,030). Commencing salary for the appointment will be according to ability and experience.

Applicants must be Associates of the Town Planning Institute and preference will be given to those possessing an additional qualification in Architecture. Applicants should have experience in dealing with three-dimensional design problems in connection with redevelopment and reconstruction. Experience in statutory planning is also desirable, particularly with regard to the forthcoming review of the Development Plan.

Housing accommodation will be made available if required.

Applications, together with the names of two referees, must reach the City Architect and Planning Officer, Mr. John L. Berbiers, F.R.I.B.A., A.M.T.P.I., not later than WEDNESDAY, 10th JUNE, 1959.

Canvassing will disqualify.

JOHN BOYLE,
Town Clerk.

Municipal Buildings,
Canterbury.

BIRMINGHAM REGIONAL HOSPITAL BOARD.

ARCHITECTURAL ASSISTANTS required. Salary scale £545-£765 p.a. Point of entry according to experience. Inter. R.I.B.A. essential. Superannuable. Apply naming two referees to Secretary, R.H.B., 10 Augustus-road, Birmingham 15, by 18th June.

EAST ANGLIAN REGIONAL HOSPITAL BOARD.

SENIOR ASSISTANT ARCHITECTS for work on the Board's capital programme (including major hospital development, estimated cost £2½ m., at Peterborough and District Memorial Hospital). Candidates must be registered architects and have had good general experience; hospital experience will be an advantage. Salary £1,050-£1,245.

Applications stating age, qualifications, experience and details of present position (salary, etc.) with names of three referees, to Secretary of Board, 117 Chesterton-road, Cambridge, by 5th JUNE, 1959.

DORSET COUNTY COUNCIL.

ARCHITECTURAL ASSISTANT required in the County Architect's Department. Salary within A.P.T. Grade II, £765-£880 per annum. Applicants should have passed the intermediate R.I.B.A. examination.

Application forms from the Clerk, County Hall, Dorchester, to be returned by 11th JUNE, 1959.

SOMERSET COUNTY COUNCIL.

ARCHITECT'S DEPARTMENT.

Applications are invited for the following appointments on the established staff, viz.:—

(a) SENIOR ASSISTANT ARCHITECTS, A.P.T. Grade IV (£1,065-£1,220).

Applicants for posts in this grade must be Associate Members of The Royal Institute of British Architects with a good standard of design ability and a sound knowledge of modern methods of construction and be capable of handling projects from sketch plans to completion.

(b) ASSISTANT ARCHITECT Special Grade (£750-£1,030, subject to revision).

Applicants must have passed Parts I and II of the R.I.B.A. final or special examination, or the equivalent at one of the recognised schools of architecture. Commencing salary will be within the grade, dependent upon the candidate's qualifications and experience.

(c) ARCHITECTURAL ASSISTANT, A.P.T. Grade I (£610-£765).

Applicants must have passed the Intermediate Examination of The Royal Institute of British Architects.

All appointments are subject to the usual conditions of Local Government Service. Applications, accompanied by the names of two persons to whom reference can be made, should reach the undersigned not later than THURSDAY, 4th JUNE, 1959.

R. O. HARRIS, F.R.I.B.A.,
County Architect.

Park Street,
Taunton.
15th May, 1959.

BOROUGH OF SALE.

APPOINTMENT OF ARCHITECTURAL ASSISTANT (A.P.T. III).

Applications are invited from suitably qualified persons for the above appointment. Salary within Grade A.P.T. II (£765-£880).

National Conditions of Service. Medical Examination. One month's notice on either side.

Applications stating age, qualifications, experience, present salary, etc., together with the names and addresses (only) of two referees should reach me by SATURDAY, 30th MAY, 1959.

Canvassing will disqualify.

BERTRAM FINCH,
Town Clerk.

Town Hall,
Sale.
May, 1959.

BOROUGH OF SWINDON.

ASSISTANT ARCHITECT.

Applications are invited for an appointment of ASSISTANT ARCHITECT, A.P.T. Special Scale, £750-£1,030 per annum. (This scale is at present under review by the National Joint Council.) Applicants must have passed the R.I.B.A. Final Examination and will be engaged on work in connection with a large and varied development programme, including housing schemes and industrial buildings, arising from the expansion of the town.

Consideration may be given to an allocation of housing accommodation.

Applications on forms obtainable from the Town Clerk, Civic Offices, Swindon, must be returned not later than 5th JUNE, 1959.

ENGINEERING

ASSISTANT Required by HACKNEY BOROUGH COUNCIL. Grade A.P.T. I-II (£610-£880 p.a.) London Weighting allowance £30 p.a. at age 26. Commencing salary according to training, qualifications and experience. Apply Town Clerk, Town Hall, Hackney, E.8, for application form returnable by 9 a.m. MONDAY, 8th JUNE, 1959.

LANCASHIRE COUNTY COUNCIL.

Applications are invited from qualified ARCHITECTS of initiative, keen on design and modern constructional methods, for a large and varied programme.

Permanent posts in A.P.T. Grade V (£1,220-£1,375). Starting point according to experience. *Previous applicants should not re-apply.*

Application Forms from the County Architect, P.O. Box 26, County Hall, Preston, reference A/B.

JUNIOR TAKERS-OFF AND WORKERS-UP

Required in the new Works Directorate at the WAR OFFICE, Chessington. The Works Directorate is an expanding organisation being formed to take over design and supervision of all Army's new building work, in this country and overseas. Scope of the work will be varied and will include single and married quarters, hospitals, schools, offices, workshops and civil engineering works. The Quantity Surveying Division under the Chief Quantity Surveyor will be organised in small self-contained teams. Each team will be responsible for estimating, cost planning, preparation of Bills of Quantities, certificates and preparation and settlement of final accounts for all projects assigned to it.

Preference given to candidates studying for professional examinations. Salaries will range from £200 (at age 16) to £900 (including London Weighting) p.a. depending on age and experience. Appointments in the first instance will be unestablished.

Write stating age, nationality, details of education and training and experience to Manager, P.E. 1067, Professional and Executive Register, Atlantic House, Farringdon-street, London, E.C.4. Only those applicants selected for interview will be advised.

COUNTY BOROUGH OF WOLVERHAMPTON.

Applications are invited for the following appointments:—

(a) PRINCIPAL ASSISTANT ARCHITECT, Grade A.P.T. IV (£1,065-£1,220) with usual car user's allowance.

Candidates must be A.R.I.B.A., have had considerable office experience and be capable of taking charge of a section dealing with large contracts.

(b) ASSISTANT ARCHITECT, Grade A.P.T. I (£610-£765).

Candidates should have Inter. R.I.B.A.

Applications, stating age, education, experience, and details of present and previous appointments, naming two referees, to the Borough Engineer, Town Hall, Wolverhampton, by MONDAY, 8th JUNE, 1959.

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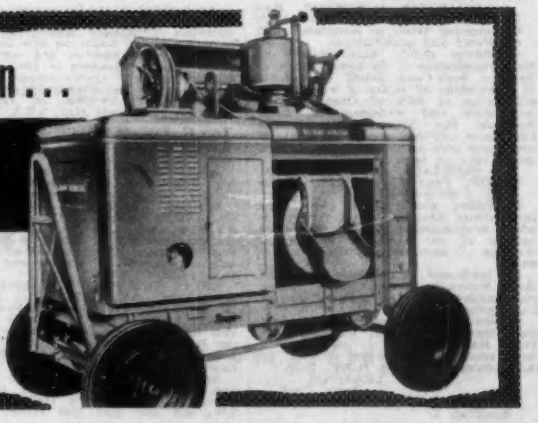

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COMMONWEALTH OF AUSTRALIA.

HIGH COMMISSIONER'S OFFICE, LONDON.

Applications are invited for the vacant position of ASSISTANT (TECHNICAL) TO SUPERINTENDENT OF BUILDINGS.

Candidates should have good organising ability and sound knowledge of building industry. Experience in the control of direct or contract labour, maintenance of high-class residential properties and office buildings, the preparation of estimates, quantities, works programmes, specifications and drawing, essential. Experience in a Municipal Engineer Surveyor's Department an advantage.

Salary £1,010-£1,100 per annum.

Minimum technical qualifications: R.I.C.S. (Building). Intermediate and/or Inst. M.E. (Intermediate). Applications, in writing, should be addressed to the Official Secretary, Australia House, Strand, London, W.C.2.

DEVON COUNTY COUNCIL

require 2 SENIOR ARCHITECTS on A.P.T. IV (£1,065-£1,220) and 2 SENIOR ARCHITECTS on N.J.C. Special Scale (£750-£1,030, increase under consideration). Full and interesting programmes of Schools and other County Buildings.

In approved cases, loans for house purchase and removal expenses are available—also lodging allowance for married officers while seeking accommodation.

Particulars and Application Form, returnable by 11th JUNE, 1959, from County Architect, 97 Heavitree-road, Exeter.

COUNTY BOROUGH OF HALIFAX.

BOROUGH ENGINEER'S DEPARTMENT.

APPOINTMENT OF ASSISTANT ARCHITECT, SPECIAL GRADE.

Applications are invited for the above appointment, salary within Special Grade, at present £750-£1,030 p.a. The successful candidate will serve in the section which deals with all architectural work except schools.

Applications stating age, education and training, qualifications, present and past appointments (with dates and salaries) and experience, accompanied by copies of two recent testimonials should reach me by MONDAY, 1st JUNE, 1959.

RICHARD DE Z. HALL,
Town Clerk.

Town Hall,
Halifax.

SALOP COUNTY ARCHITECT'S DEPARTMENT.

Applications are invited from qualified persons for the following posts:—

(a) CHIEF ASSISTANT ARCHITECT, J.N.C. Scale 'B' (£1,275-£1,485 p.a.) to act as leader of a small group producing a detailed scheme for new County Administrative Centre in Shrewsbury.

(b) SENIOR ASSISTANT ARCHITECTS (3 vacancies), A.P.T. Grade IV (£1,065-£1,220 p.a.).

(c) SENIOR ASSISTANT QUANTITY SURVEYOR, A.P.T. Grade IV (£1,065-£1,220 p.a.). A disturbance allowance or weekly separation allowance will be payable to married men taking up these appointments. Conditions of service and application forms obtainable from RALPH CROWE, A.A.Dipl., A.R.I.B.A., A.M.T.P.I., County Architect, Column House, London-road, Shrewsbury. Closing date 30th MAY, 1959.

CITY OF BRADFORD.

QUANTITY SURVEYORS.

Applications are invited for the following superannuable appointments in the City Engineer and Surveyor's Department, on the grades indicated:—

(a) QUANTITY SURVEYOR, Post 208, Special Grade (£750-£1,030). Commencing salary in accordance with experience and qualifications.

Candidates should have passed the Final examination of the appropriate professional body and should be capable of undertaking all stages of work in the preparation of Bills of Quantities and preparation and settlement of Final Accounts, Site Measurements, Interim Certificates and preliminary estimates, in connection with multi-storey flats, houses, shops, etc., on large housing estates.

(b) ASSISTANT QUANTITY SURVEYOR, Posts 27 and 155, Grade A.P.T. I (£610-£765).

Candidates should have passed the Intermediate Examination of the appropriate professional body and should be capable of all stages of working-up, checking of accounts and site measurement.

All applicants should have completed their National Service. No housing accommodation can be provided by the Corporation.

Applications on form to be obtained from the City Engineer and Surveyor, Town Hall, Bradford, 1, together with three testimonials must be received by the undersigned by 2nd JUNE, 1959.

W. H. LEATHEM,
Town Clerk.

Town Hall,
Bradford, 1.

EAST SUSSEX COUNTY COUNCIL.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT with salary on Grade A.P.T. II, £765-£880 per annum. Candidates should have passed the intermediate examination of the R.I.B.A. or equivalent recognised examination and be accurate draughtsmen. Applications to the County Architect, County Hall, Lewes, not later than 5th JUNE, 1959.

COUNTY BOROUGH OF BURNLEY.

Appointment of HOUSING ASSISTANT (MAINTENANCE) in the Housing Department.

Salary Misc. Div. Grade V, £650-£715.

Applications are invited for the above appointment from suitably qualified persons having a sound knowledge and experience of all aspects of the building trade.

Further details and form of application from the Housing and Property Manager, 52 Manchester-road, Burnley. Closing date 3rd JUNE, 1959.

C. V. THORNLEY,
Town Clerk.

CITY OF BRADFORD.

CLERK OF WORKS.

Applications are invited for the appointment of CLERK OF WORKS (Post No. 130) in the Contract Housing Section of the City Engineer and Surveyor's Department at a salary in accordance with A.P.T. I (£610-£765).

Candidates must have had experience as a Clerk of Works or General Foreman in the construction of houses, and should hold the Higher National Certificate.

Applications on forms to be obtained from the City Engineer and Surveyor, Town Hall, Bradford, 1, together with three testimonials must be received by the undersigned by 2nd JUNE, 1959.

W. H. LEATHEM,
Town Clerk.

Town Hall,
Bradford, 1.

MIDLANDS ELECTRICITY BOARD.

ARCHITECTURAL DRAUGHTSMAN Required on the Chief Engineer's staff at Board Headquarters.

Duties will involve (under supervision) site surveys, preparation of site layouts, sketch plans, detail and working drawings for office blocks, stores, workshops, garages, and Service Centre buildings. Intermediate R.I.B.A. an advantage.

Salary £790-£890 per annum (N.J.B. Schedule "D" Grade 5). Superannuable. Apply, by letter, within 14 days, stating age, experience, present salary and position to The Secretary, Midlands Electricity Board, Mucklow Hill, Halesowen, Nr. Birmingham.

A. STEPHENS,
Secretary.

CITY AND COUNTY OF NORWICH.

ESTATES ASSISTANT Required in Grade A.P.T. II (£765-£880). Preference will be given to candidates with an Intermediate qualification (A.R.I.C.S. or A.A.I.). Duties will consist mainly of assisting in the management of corporate properties and candidates should have experience in the preparation of specifications, estimates, dilapidation schedules and in the supervision of repair works. Some knowledge of estate management generally would be an advantage.

Consideration will be given to the provision of housing accommodation, under certain circumstances.

Applications, together with the names of two referees must reach the City Engineer, City Hall, Norwich, not later than 12th JUNE, 1959.

LONDON COUNTY COUNCIL.

HOUSING MANAGEMENT DEPARTMENT—WORKS DIVISION.

Applications invited for number of positions as SURVEYOR for measuring and operation of incentive scheme for bonus payments for all trades on new construction and modernisation and conversion work. Up to maximum of £860 according to experience (under review). Apply stating age, qualifications and details of experience to Director of Housing, HM/G/W.20, County Hall, S.E.1. (1091.)

ISLE OF WIGHT COUNTY COUNCIL.

Applications are invited for the following established appointments in the County Architect's Department:—

SENIOR ASSISTANT ARCHITECTS (2). Salary within A.P.T. Grade IV (£1,065-£1,220). Candidates must be associate members of the R.I.B.A., have had experience in the planning, design, and construction of schools and other local authority work.

ARCHITECTURAL ASSISTANT/ASSISTANT ARCHITECT (1). A.P.T. II (£765-£880) or Special Grade (at present £750-£1,030), the latter if candidate has passed the final examination of the R.I.B.A. Candidates should have a sound general experience preferably in local authority work.

Application forms, obtainable from, and returnable to, the Clerk of the County Council, County Hall Newport, I.W., not later than 12th JUNE, 1959.

BOROUGH OF SUTTON AND CHEAM.

BOROUGH ENGINEER AND SURVEYOR'S DEPARTMENT.

APPOINTMENT OF ARCHITECTURAL ASSISTANT.

Applications are invited for the appointment of an ARCHITECTURAL ASSISTANT, Grade A.P.T. IV £1,065-£1,220 plus £20-£30 London "Weighting" per annum.

Applicants should have good general experience in Housing and Public Buildings.

The commencing salary will be according to ability and experience.

The appointment which is terminable by one month's notice in writing on either side, is on the permanent staff of the Corporation, is subject to the provisions of the Local Government Superannuation Acts, 1937 to 1953, and to the National Scheme of Conditions of Service.

The successful candidate will be required to pass a medical examination. Forms of application may be obtained from Mr. N. H. Michell, A.M.I.C.E., M.I.Mun.E., Borough Engineer and Surveyor, to whom they should be returned, accompanied by copies of two recent testimonials not later than 9th JUNE, 1959, endorsed "Architectural Assistant, Grade A.P.T. IV." Applicants must state whether they are related to any member or holder of any senior office under the Borough Council. Canvassing in any form will disqualify.

ARTHUR PRIESTLEY,
Town Clerk.

Municipal Offices,
Sutton,
Surrey.

CITY OF BIRMINGHAM.

NEW COLLEGES OF TECHNOLOGY AND COMMERCE, GOSTA-GREEN, BIRMINGHAM.

APPOINTMENT OF CLERK OF WORKS.

The Education Committee invite applications for the appointment of a CLERK OF WORKS to assist the Senior Clerk of Works at the above site at a commencing salary of £705 per annum, rising by three annual increments to £765. The appointment will be subject to the rules and regulations of the Education Committee and will be terminable by one calendar month's notice on either side.

Applications stating age, qualifications and experience, together with the names and addresses of three referees, should be enclosed in an envelope endorsed "Clerk of Works, Gosta-green," and should be forwarded to the undersigned, addressed to 74-75 Broad-street, Birmingham 15, so as to be received not later than the 1st JUNE, 1959. Canvassing will be considered as a disqualification.

E. L. RUSSELL,
Chief Education Officer.

H.M. PRISON COMMISSION.

DRAUGHTSMEN—both Architectural and Engineering Required (men or women). Salary (men) £550 at age 21, £753 at age 28 then to £875. For women equal pay scheme applies.

Hours 42 per 5-day week. Annual leave 3 weeks 3 days rising to 4 weeks 2 days after 10 years' service.

Qualifications.—Architectural Draughtsmen. Recognised training with a good general knowledge of building construction and surveys, preferably up to Inter. R.I.B.A. standard.

Engineering Draughtsmen. Should preferably have had educational training to Ordinary National Certificate in mechanical or electrical engineering course standard or the equivalent in heating and ventilating course.

Appointments unestablished in first instance with prospects of permanency.

Regulations and application forms from Establishment Officer, Prison Commission, Horseferry House, Dean Ryle-street, London, S.W.1, to be returned by 5th JUNE, 1959.

SOUTHAMPTON COUNTY BOROUGH COUNCIL

Requires under N.J.C. conditions of service:

ASSISTANT QUANTITY SURVEYOR —salary within Special Grade (£750-£1,030 p.a.)

Applicants must be Chartered Quantity Surveyors, preferably with experience in municipal housing, including multi-storey flats and shopping centres.

The salary scale is subject to adjustment in accordance with the new N.J.C. increase.

Apply on application forms, obtainable from the Borough Engineer and Surveyor, Civic Centre, Southampton, by not later than MONDAY, 15th JUNE, 1959.

LONDON COUNTY COUNCIL.

BUILDING SITE SUPERVISERS, required for erection of houses and blocks of flats by direct employment of labour. Wide experience of supervision on traditional building work and reinforced concrete construction as applied to multi-storey flats. Salary according to qualifications and experience. Bonus on results may be earned in addition. Apply stating age, brief details of experience and qualifications, enclosing s.a.e. and quoting HM/G/TSS16 to Director of Housing, County Hall, S.E.1. (1083.)

LANCASHIRE COUNTY COUNCIL.

Applications are invited from qualified ARCHITECTS of initiative, keen on design and modern constructional methods, to work on a large and varied programme.

Permanent posts on Special Class Scale (at present £750-£1,030, but under review). Starting point according to experience.

Application Forms from the County Architect, P.O. Box 26, County Hall, Preston, reference A/B.

LANCASHIRE COUNTY COUNCIL.

STRUCTURAL ENGINEER Required. Must be corporate member of Institute of Structural Engineers, with wide experience in design of reinforced concrete structure and foundations.

Permanent post, Special Class Scale (at present £750-£1,030, but under review). Starting point according to experience.

Application Forms from the County Architect, P.O. Box 26, County Hall, Preston, reference A/B. Returnable by the 1st JUNE, 1959.

HEREFORDSHIRE COUNTY COUNCIL

ARCHITECTURAL ASSISTANT required on A.P.T. Grade I (£610 to £765 per annum).

Superannuated post subject to medical examination and one month's notice on either side. Travel and subsistence allowance payable to married men in certain cases for limited period.

Application forms from County Architect, Bath-street, Hereford, to be submitted by 8th JUNE, 1959.

BOROUGH OF FINCHLEY. HOUSING DEPARTMENT.

JUNIOR ARCHITECTURAL ASSISTANT.

Salary within A.P.T. Grade I, according to qualifications and experience (£610-£765), plus London Weighting.

Subject to satisfactory service anticipated duration of the post will be approximately 2-3 years.

Preference will be given to those who have passed the R.I.B.A. Intermediate Examination and who have had practical office experience in housing work.

The National Scheme of Conditions of Service and the Local Government Superannuation Acts apply and medical examination is required.

Applications stating age and full particulars of qualifications and experience, with the names of two referees, to be submitted to The Borough Housing Officer, The Avenue, Finchley, N.3, by first post on WEDNESDAY, the 3rd JUNE, 1959.

R. M. FRANKLIN,
Town Clerk.

Municipal Offices,
Finchley, N.3.

BOROUGH OF FINCHLEY. HOUSING DEPARTMENT.

ARCHITECT'S SECTION—JUNIOR

Salary within General Division according to age, qualifications and experience (£210-£595) plus London Weighting.

Subject to satisfactory service anticipated duration of the post will be approximately 2-3 years.

Preference will be given to an applicant prepared to study for the R.I.B.A. examinations and duties will include tracing and working-up Architects' details.

The National Scheme of Conditions of Service and the Local Government Superannuation Acts apply and medical examination is required.

Applications stating age and full particulars of qualifications and experience, with the names of two referees, to be submitted to The Borough Housing Officer, The Avenue, Finchley, N.3, by first post on WEDNESDAY, the 3rd JUNE, 1959.

R. M. FRANKLIN,
Town Clerk.

Municipal Offices,
Finchley, N.3.

CWMBRAN DEVELOPMENT CORPORATION.

APPOINTMENT OF DEPUTY CHIEF ARCHITECT.

Applications are invited for the above superannuable post in the Salary range £1,527-£1,755, the point of entry being in accordance with qualifications and experience.

Applicants should be Associates of the R.I.B.A. and with experience of large scale Housing contracts and Town Centre Development. Experience in Town Planning will be an advantage. Housing accommodation will be made available to the successful applicant if needed.

Applications stating age, experience, details of present and former employment (together with applicable salaries) and the names and addresses of two referees must reach the undersigned by first post on MONDAY, 8th JUNE, 1959.

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APPOINTMENT OF DEPOT CLERK AND TIMEKEEPER, BUILDING WORKS SECTION.

Applications are invited for the above position at a salary in accordance with Miscellaneous Grade III (£525 x £25(1) x £20(2)-£590).

Applicants should have a knowledge of the keeping of records and of timekeeping in the building trades. The successful applicant will work at the Eastmoor Housing Depot for the time being, but will then be transferred to the new Central Depot when completed.

The normal hours of work will be 44 per week, and overtime will only be payable in respect of planned overtime worked in excess of 44.

Applications stating age, present and previous appointments, and experience, together with the names of two persons to whom reference can be made, should be sent to the City Engineer, Town Hall, Wakefield, so as to be received by him not later than the 6th JUNE, 1959.

HUNTINGDONSHIRE.

COUNTY ARCHITECT'S DEPARTMENT.

ARCHITECTURAL ASSISTANT. Grade A.P.T. II (£765-£880).

Applications are invited for the above appointment from suitably qualified persons.

Further details and application forms may be obtained from the County Architect, County Buildings, Huntingdon. Completed application forms should be returned to the undersigned by FRIDAY, 5th JUNE, 1959.

A. C. AYLWARD,
Clerk of the County Council.
County Buildings,
Huntingdon.

OVERSEAS PUBLIC APPOINTMENTS

SINGAPORE POLYTECHNIC.

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Qualifications: (a), (b), Diploma of recognised School of Architecture; experience in Architectural practice/teaching. (c) Diploma or degree of a school recognised as exempting from final examination of T.P.I.; additional qualifications in Geography, Economics, Architecture, Civil or Municipal Engineering an advantage. (d) Recognised qualification in Civil and/or Structural Engineering, with practical experience in design and supervision of concrete structures. (e) 1st Class full technological certificate of City and Guilds; technical Teacher's Certificate an advantage.

Monthly Salary Scale: (a) M$1,800 x M$50-M$1,950; (b), (c) M$1,000 x M$50-M$1,350; (c), (d) M$1,200 x M$50-M$1,550. (One M$=2/4d. at present.)

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Application forms (4 copies) and further information obtainable from Council for Overseas Colleges, 12, Lincoln's Inn Fields, London, W.C.2. Closing date 5th JUNE, 1959.

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require TEMPORARY ARCHITECTURAL STAFF at their London office for about nine months to prepare contract drawings for a large building programme in Ghana. Salary range from £80 to £120 per month according to experience. Applications are invited from qualified architects. Further details may be obtained from the London Office of Kumasi College of Technology, 29 Tavistock-square, London, W.C.1, to whom applications should be sent as soon as possible.

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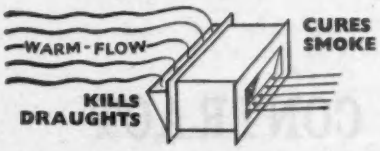

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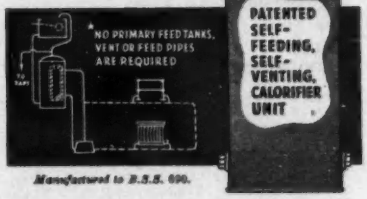

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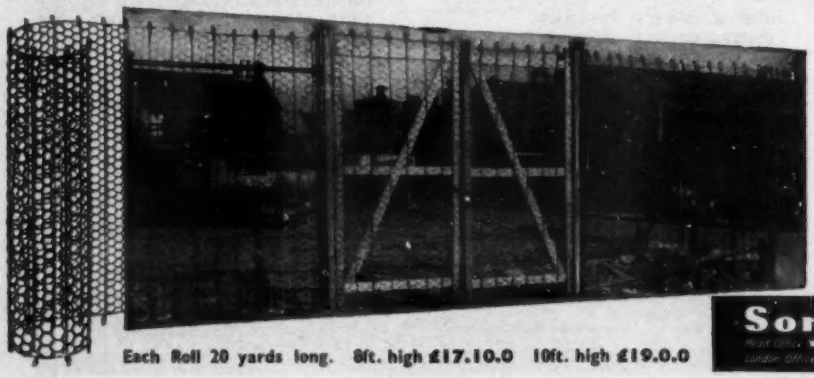

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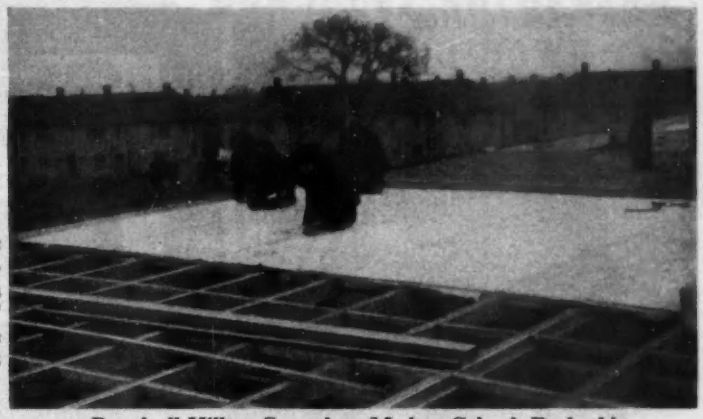

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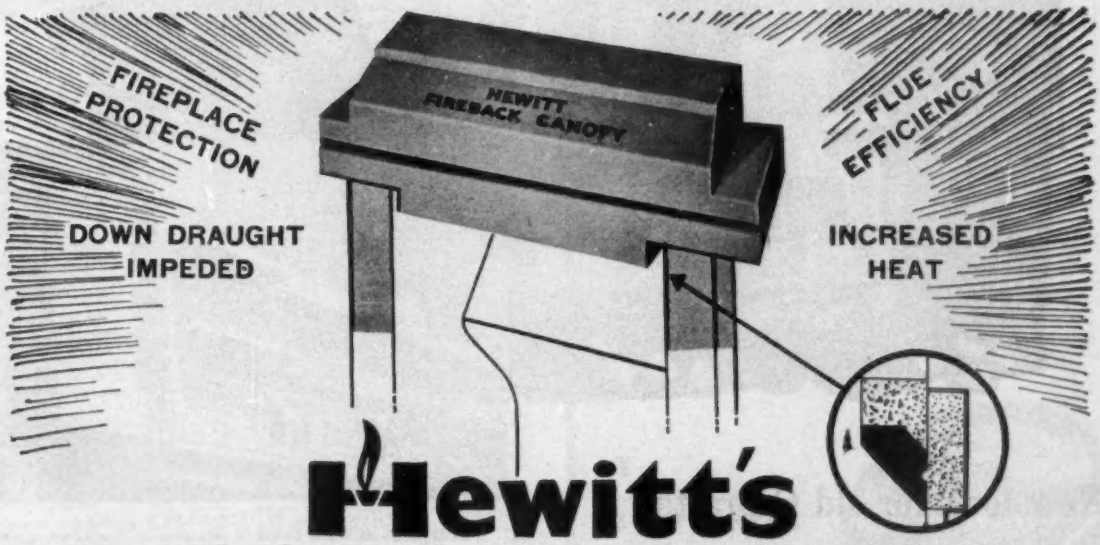

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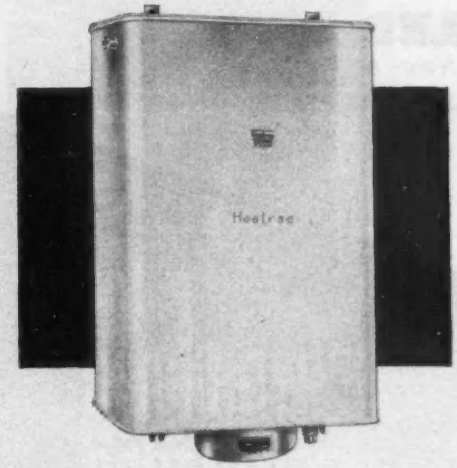

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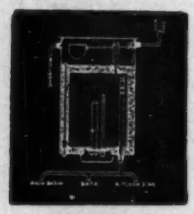

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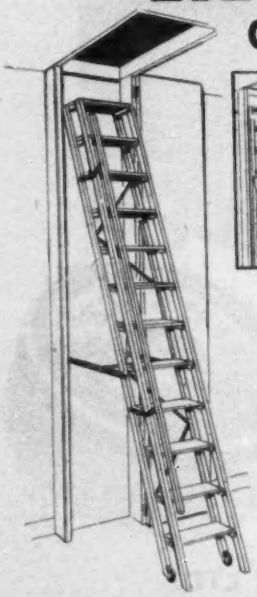

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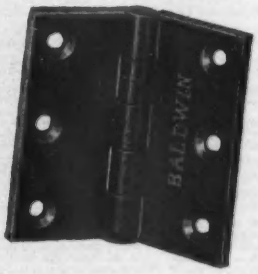

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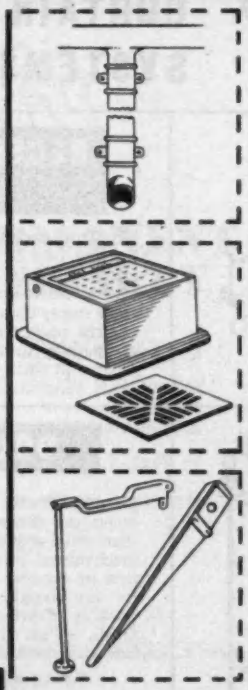

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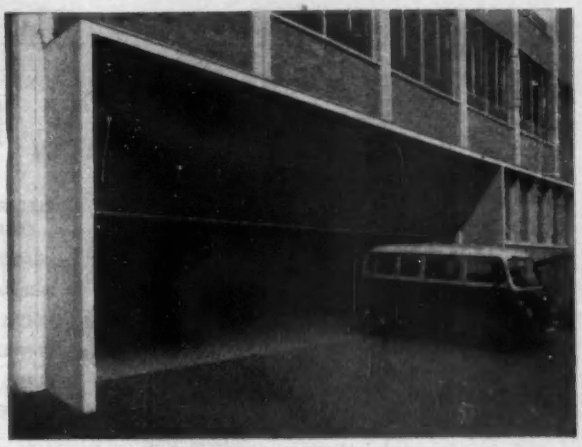
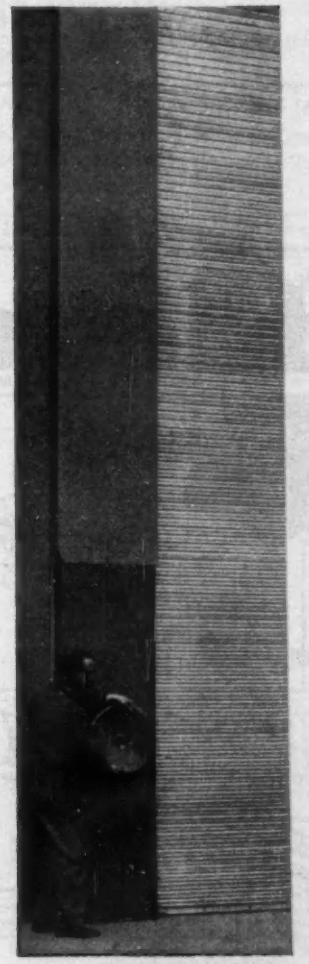


all roller shutters!



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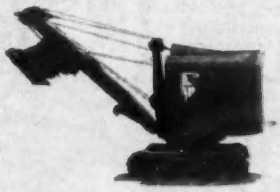

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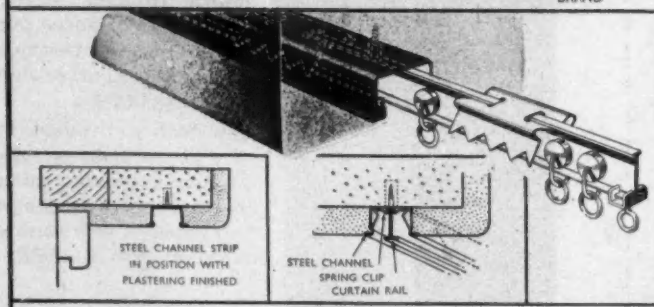

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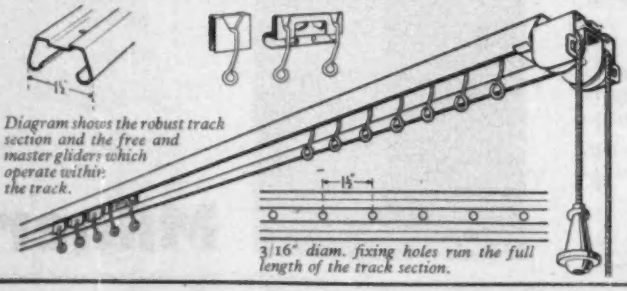

Diagram shows the robust track section and the free and master gliders which operate within the track.

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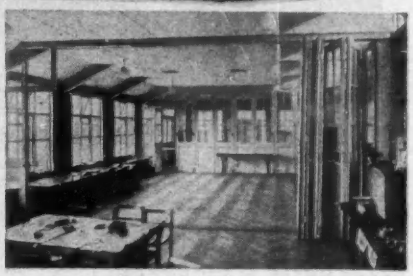

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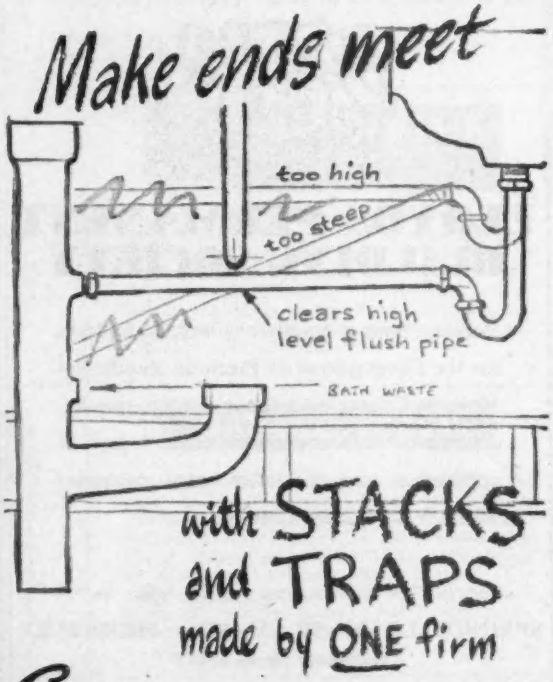

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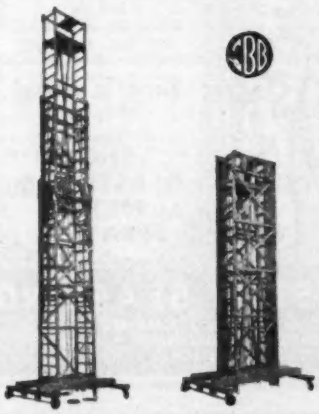

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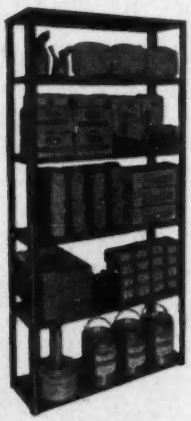

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There is a Life Assurance and Pension Scheme in operation. Applications giving full details of age, experience and qualifications should be made in writing to :—

THE BUILDING MANAGER,
VICKERS-ARMSTRONGS (ENGINEERS) LIMITED,
NAVAL CONSTRUCTION WORKS, BARROW-IN-FURNESS, LANCS.

H. FAIRWEATHER & CO. LTD.

BUILDING & CIVIL ENGINEERING CONTRACTORS
HAVE VACANCIES IN THEIR
HEAD OFFICE AT HYDE WORKS, ST. JAMES'S LANE, N.10
AND THEIR NORTHERN AREA OFFICE AT
32 DEANSGATE, MANCHESTER 3.

SENIOR QUANTITY SURVEYOR FOR NORTHERN AREA OFFICE.
To be in control of Surveying Dept.
First class prospects for a man aged 30—40 capable of negotiating and preparing Interim and Final Accounts, measuring and settling Sub-Contractors Accounts.
Capable of organizing and controlling staff.

BUILDERS OFFICE MANAGER/BUYER FOR NORTHERN AREA OFFICE.
To be aged between 30 and 40, capable of managing Northern Area Office and fully experienced in buying, placing Sub-Contracts and used to Bills of Quantities and Specifications.

AGENTS & GENERAL FOREMEN FOR LONDON & NORTHERN AREAS.
To be capable of organizing and cost controlling all types of contracts and experienced in modern plant techniques.

ASSISTANT SURVEYORS FOR HEAD & NORTHERN AREA OFFICES
To carry out varied and interesting work. First class prospects in an expanding and progressive Company.

Applications for Head Office appointments to be made to London, for Northern Area Office to Manchester.
Interviews for these appointments will be arranged in Manchester and London.
Please state age, education, experience and salary required. All applications will be treated in strict confidence.
These appointments are permanent and pensionable subject to satisfactory service with the Company.

COMPETENT QUANTITY SURVEYOR Required for Professional Office in Leicester. Good salary. Lunch Vouchers.—Box 992, "The Builder."

LEADING London Contractors have a limited number of vacancies for SENIOR QUANTITY SURVEYORS in (a) London; (b) The Provinces, where accommodation will be provided, if necessary. Only men with a first-class record should apply, since the highest qualifications are required. Successful applicants will be offered salaries in the region of £2,000 per annum, plus commission and car allowance, and after a qualifying period opportunity will be given to join the Company's Superannuation Scheme.—Apply in confidence, stating age, previous experience and employers to Chief Personnel Officer, Box 1039, "The Builder."

WELL-KNOWN Building and Civil Engineering Contractors Require resident QUANTITY SURVEYORS for Contracts in London. The successful applicants will be offered attractive commencing salaries, the positions being permanent and pensionable. Existing holiday arrangements will be honoured. —Apply in confidence, stating age, previous experience and employers to Box 1040, "The Builder."

QUANTITY SURVEYORS, recently qualified or having passed R.I.C.S. Intermediate Required in professional office in West Riding of Yorkshire. The positions are permanent and pensionable with opportunities for paid overtime.—Write stating age, experience and salary required to Box 1085, "The Builder."

QUANTITY SURVEYOR Required for new Office in central Manchester. Intermediate/final standard. Excellent opportunity for advancement.—Write stating age, experience and salary required to Box 1041, "The Builder."

SENIOR QUANTITY SURVEYOR
and
QUANTITY SURVEYOR
required by
WATES LTD.

Excellent salary, bonus, contributory superannuation scheme, 5 day week, subsidised canteen, holiday arrangements honoured. Write fully stating age, training, qualifications and present salary to:

Personnel Manager,
1258/60 London Road, Norbury, S.W.16

BUILDING SURVEYOR, aged 22-28 years. Required for position in large industrial company in North Liverpool. Capable of preparing surveys of properties, plans of alterations, etc., supervising work.—Apply in writing stating experience and salary required to Box 1115, "The Builder."

COST AND BONUS SURVEYOR Required by N.W. London Building and Civil Engineering Contractors for work on varied and interesting contracts. Energy and drive will be placed before qualifications, with excellent prospects for the right man. —Write to HOWARD FARROW Ltd., Ref. D.J.B., Bank Buildings, Russell Parade, Golders Green-road, N.W.11.

EXPERIENCED BUILDING MAINTENANCE SURVEYOR Required in London Office of UNITED DAIRIES, Ltd.—Applications to be made to Chief Architect, 31 St. Petersburgh-place, Bayswater, W.2, stating age, previous experience and salary required.

ROBERT M. DOUGLAS (CONTRACTORS), Ltd. Require PRODUCTION AND BONUS SURVEYORS experienced in General Civil Engineering and Building works.—Apply in writing, stating age, qualifications, experience and salary required, to 395 George-road, Birmingham, 23.

SITE SURVEYOR Required by Civil Engineering Contractors for interesting Contracts in Liverpool, with prospects of permanency within Organisation. Must be thoroughly cost-minded and capable of agreeing all Variations.—Apply Box 1043, "The Builder," stating age, experience and salary required.

SURVEYOR/TAKER-OFF Required for London office Reinforced Concrete and Hollow Tile Flooring specialists. Must be fully competent and able to draft and negotiate final accounts. Pension scheme; 5-day week.—Write fully details of experience, age and salary required, to Box 979, "The Builder."

BUILDER'S SURVEYOR (25-35) Required; must have sound knowledge of site measuring, variations, interim valuations, final accounts, etc.; pension scheme.—Apply in writing only giving full details of experience, age and salary desired to BRAZIER & SON, LIMITED, 303-305 Portswood-road, Southampton.

SURVEYOR, aged 25 to 30, Required by London Contractors handling large-scale Industrial Developments throughout the United Kingdom. H.N.C. standard, willing to travel, good personality and adaptability essential. Contracts £50,000 to £1M. Pension scheme, good prospects of promotion. Full details to Box 1044, "The Builder."

PLUMBING SURVEYOR/SUPERVISOR Required by London Plumbing Contractors, to take full charge of small works dept. (contracts up to £750) from estimating to final account stage without supervision. Holidays honoured; Saturday rota; superannuation scheme available.—Write stating age, experience, salary required.—Box 1008, "The Builder."

SENIOR QUANTITY SURVEYOR
required for Darlington and Middlesbrough Offices, Applicants should be qualified and have had at least five years' taking-off experience.

ASSISTANT QUANTITY SURVEYOR
required for Middlesbrough Office. Applicants should be of Inter-standard with some taking-off experience.
The above positions are permanent and commencing salaries will be subject to annual review. Five day week. Pension Scheme. Three weeks' summer holiday for Senior positions.
Detailed applications, endorsed confidential, to

Messrs. Turner & Townsend,
F/A.R.I.C.S., F/F.I.Q.S.,
'Ellerbeck House',
Woodland Road, Darlington.

MEASURING SURVEYOR Required, capable of working on own initiative and handling contracts from start to finish.—Write stating age, experience and salary to Box 1009, "The Builder."

SURVEYOR Required, experienced in carrying out survey work and preparation of housing estate layout plans; road and sewer plans and sections; supervision of road and sewer construction. Salary according to experience.—Apply, stating age and experience to Box 1104, "The Builder."

SENIOR SURVEYOR Required, experienced in supervision of building construction, preparation of building contracts, and administration of payment under contracts. Salary according to experience.—Apply, stating age and experience to Box 1105, "The Builder."

SURVEYOR/ENGINEER Required for Speculative Development, Layouts, Roads and Drainage. This is a senior progressive position for a capable man who is fully conversant with estate development.—Apply, stating salary required, to Housing Department, SIR LINDSAY PARKINSON & CO., Ltd., 6, Lambeth-road, S.E.1.

SURVEYOR Required for Small Contracts (up to £5,000 each). Taking-off quantities from drawings for wide variety of Tenders, preparation of interim and final accounts, site measuring, sub-contractors, etc. Excellent opportunity for young surveyor with sound technical knowledge.—Apply by letter only, stating age, experience, qualifications, and salary required to Chief Surveyor, R. FIELDING & SON (BUILDERS), Ltd., Stanhope-road, Blackpool.

SURVEYOR Required for Building and Civil Engineering Contractors in South-Eastern England. I.O.B. or equal qualifications essential. Excellent prospects, non-contributory pension scheme.—Apply giving details of experience to Box 1092, "The Builder."

PLANNING SURVEYOR
Required by Manchester Builder for Planning/Programming building projects, all sizes. Must be fully conversant with works study and Bonus payments. Applicants are requested to state their age, full details of experience, qualifications, availability and some indication of present salary to **The Secretary, Robert Carlyle & Co. Ltd., Elsinore Road, Old Trafford, Manchester 16.**

SURVEYOR ESTIMATOR Required with experience of medium and small contracts, interims, site measuring and final accounts, knowledge of working with L.C.C. and private Architects an advantage.—Write first case giving full details to R. J. TRUSCOTT Ltd., Building Contractors, Cranmer-road, Forest Gate, E.7.

MEASURING SURVEYOR Required by expanding Building Contractors for housing contracts. Car owner preferred. Duties consist of measuring and agreeing sub-contractors (labour only and labour and materials) interim valuations, final accounts, ordering materials, etc. Interesting position for keen, adaptable surveyor.—Please state age, experience, salary required and when available to Box 885, "The Builder."

BUILDER'S SURVEYOR.—Established Building Company on Gloucestershire, Oxfordshire, Worcestershire and Warwickshire borders with excellent connections can offer to a really competent applicant a permanent position with prospects for advancement. Pleasant working conditions in new and modern equipped offices, salary to be arranged with good pension scheme. Successful applicant must be capable of meeting and advising clients, preparing specifications and bills of quantities together with final accounts, and on occasions to run schemes through to completion.—Box 886, "The Builder."

QUANTITY SURVEYORS Require MEASURING SURVEYOR in Wiltshire and Gloucester area for contracts. Must have complete knowledge of W.D. schedule. Preferably mobile. — Write stating age, details of experience and salary required, Box 1002, "The Builder."

SURVEYOR, experienced in measurement of Industrial Pipeworks Contracts Required for large Contract in South Wales.—Apply, stating age, experience and salary required to Box 889, "The Builder."

CHIEF SOLITARY BONUS SURVEYOR Wanted by small firm, Bedford district. No promises, perquisites, pensions or promotion ladder: just push, perspiration, performance and pay.—Essential particulars to Box 896, "The Builder."

MEASURING SURVEYORS
required for staff of
LONDON CONTRACTOR'S
HEAD OFFICE

Permanent position with bonus and Pension Schemes. Good salary which will be reviewed regularly. Age 25/35. Applications in writing stating age and experience to

Box No. 1042, "The Builder"

EXPERIENCED QUANTITY SURVEYOR'S ASSISTANT Required by well-known firm of Chartered Quantity Surveyors in Bloomsbury. Salary £1,000 to £1,250 per annum according to age and experience. L.V.s, 5-day week, overtime paid and Pension Scheme.—Box 887, "The Builder."

ASSISTANT BUILDER'S SURVEYOR Required. Able to take off quantities from plan and specification and control small works, private housing, etc. Permanent position with good prospects for keen young man.—Reply, with details of technical training, experience and salary required, to Managing Director, J. T. PARSONS & SON, Ltd., Westbury, Wilts.

ASSISTANT BUILDER'S SURVEYOR Required by Estate Developers. Site measuring, variations, interim valuations, final accounts.—Apply in writing giving full details experience, etc., to LAWDON PARTNERS, Ltd., 157 Victoria-street, S.W.1.

ASSISTANT to Principal Required in offices of Chartered Surveyors, Estate Agents, etc., East Sheen, S.W.14. Young man with some knowledge of building construction and with capabilities in measuring for and drawing plans, drafting reports on surveys of houses, preparing specifications. Varied congenial work in nice district.—Write stating experience and salary required to Mr. J. A. Knowlton, F.R.I.C.S., MESSRS. C. & E. MELVILLE, Chartered Surveyors, 233 Upper Richmond-road West, East Sheen, S.W.14.

A VACANCY has arisen for an ASSISTANT SURVEYOR to work under a Full Surveyor in the Minor Works and Alterations Department of a large London Building and Civil Engineering Contractors.—Write giving full particulars and salary required to Box 1045, "The Builder."

REINFORCED CONCRETE SPECIALISTS Require YOUNG MEN of good education, with an aptitude for figures, to operate Incentive Schemes. Successful applicants will be given the opportunity of Work Study training. The appointment carries a good salary and prospects. Some experience as Cost and Bonus Surveyor would be an advantage.—Apply by letter stating age and experience to: PIERHEAD ENGINEERING DIVISION, Faggs-road, Feltham, Middlesex.

OLD-ESTABLISHED CHARTERED QUANTITY SURVEYORS Require ASSISTANTS of R.I.C.S. final standard for large site contract in London. Good prospects for advancement.—Apply stating age, experience and salary required to Box 1117, "The Builder."

ASSISTANT SURVEYOR, aged 20-25, Required for Site Office at Stevenage New Town to assist in site measuring, valuations, etc. Progressive position with good salary and bonus.—Write stating age, experience, to ROBERT MARRIOTT Ltd., Midland Works, Rushden, Northants.

JUNIOR ASSISTANT, Inter R.I.C.S., Wanted for busy Q.S. Office in West Country. Permanent position. 5-day week. Overtime available. State age and experience, etc.—Box 1121, "The Builder."

JUNIOR BUILDING SURVEYOR Required to assist in preparation of estimates and accounts, etc. —Apply in writing giving full details of experience and salary required (Thames Ditton, Surrey Area), Box 1087, "The Builder."

JUNIOR ASSISTANT Required in Quantity Surveyor's Office, Holborn district.—Reply with details of age, education, any previous experience and salary required to Box 1046, "The Builder."

LONDON CHARTERED QUANTITY SURVEYORS have vacancy for JUNIOR to enter profession. Minimum standard five G.C.E. subjects. —Write stating age and details of education to Box 1118, "The Builder."

BOY Required as TRAINEE in London Chartered Quantity Surveyor's Office. Commencing salary £3 to £6 per week according to previous experience, if any.—Apply WHEELER, RUMBLE & PARTNERS, 16 Grenville-street, W.C.1. Terminus 1107.

JUNIOR TAKER-OFF recently sat R.I.C.S. finals Required for Chartered Quantity Surveyor's office in West End. Five-day week. Luncheon vouchers. Busy medium size office.—Please write stating experience and salary required to Box 1095, "The Builder."

EXPERIENCED TAKERS-OFF MEASURING SURVEYORS Required for large site contract in South Wales.—Write, stating age, experience and salary required to Box 888, "The Builder."

EXPERIENCED TAKER-OFF MEASURING SURVEYOR Required in North of England for a large Site Contract. Good salary for suitable man. —Please reply, stating age and experience, to Box 890, "The Builder."

ASSISTANT TAKER-OFF (final standard) Required by F. S. SNOW & PARTNERS. Five-day week, Luncheon vouchers, superannuation.—Apply in writing to 87 Charing Cross-road, London, W.C.2, stating age, experience, qualifications, and salary required.

THE HELICAL BAR & ENGINEERING COMPANY LTD., 82 Victoria-street, S.W.1, Require the following staff for their London office:—TAKER-OFF to prepare Bills of Quantities for reinforced concrete work. ESTIMATOR for R.C. Structures, Hollow Tile floors, etc. Five-day week. Pension scheme. Luncheon vouchers given.—Apply in writing giving brief details of experience and salary required.

COMPETENT TAKER-OFF Required in London Chartered Quantity Surveyors' office. Apply stating age, experience, qualifications and salary required to Box 957, "The Builder."

EXPERIENCED TAKER-OFF Required by Westminster Quantity Surveyors for responsible post. Excellent prospects. Lunch vouchers.—Write stating age, experience and salary required, to Box 991, "The Builder."

TAKER-OFF Required for Quantity Surveyor's office, Kings Cross Area. Intermediate/final standard. Good prospects for experience and advancement in an expanding office.—Write stating age, experience and salary required to Box 1047, "The Builder."

LONDON Chartered Quantity Surveyors Require for permanent staff (a) TAKER-OFF; (b) MEASURING SURVEYOR, for Final Accounts.—Write stating age, experience and salary required to Box 993, "The Builder."

TAKER-OF, SENIOR, Required for City Office of Chartered Quantity Surveyors.—Box 1010, "The Builder."

TAKER-OFF approaching Final R.I.C.S. standard Required for West End office by Chartered Quantity Surveyors dealing also with overseas contracts.—Write stating age, experience and salary required to Box 997, "The Builder."

WANTED (for medium size office, S.W.1, JUNIOR TAKER-OFF, age 22-25, also qualified man, 25 or over.—Luncheon vouchers. State salary required.—Box 1011, "The Builder."

TAKER-OFF Required by LESLIE G. DIGHT, F.R.I.C.S., 35 Portland-place, W.1. Salary about £900 p.a. Reply in handwriting stating age and experience.

TAKER-OFF, trained in Northern Method of Measurement, Required by London Chartered Quantity Surveyor. Salary about £900 p.a.—Reply stating age and experience to Box 1012, "The Builder."

OLD-ESTABLISHED CHARTERED QUANTITY SURVEYORS have a vacancy for QUALIFIED ASSISTANT in London and vacancies for TAKERS-OFF and MEASURING SURVEYORS on long-term provincial contract. Salary based on age and experience, up to £1,250. Holiday arrangements respected. —Apply stating age, experience and salary required to Box 1116, "The Builder."

JUNIOR WORKER-UP, with eighteen months' experience in the profession, Required from next September by London Chartered Quantity Surveyors. —Apply, giving details of education, experience and salary required, to Box 891, "The Builder."

EXPERIENCED WORKER-UP Required by Westminster firm of Quantity Surveyors. Five-day week and luncheon vouchers. Good prospects and opportunities.—Write stating experience and salary required, Box 975, "The Builder."

CAPABLE WORKER-UP Required in London Chartered Quantity Surveyors' office. Appointment with prospects of advancement according to capability. Apply in writing stating age, office and examination experience and salary required to Box 956, "The Builder."

WORKER-UP Required by medium-size progressive West End Chartered Quantity Surveyors engaged on U.K. and West Indies contracts. Prospects of advancement according to capability.—Write giving experience, and salary required, to Box 986, "The Builder."

WORKER-UP Required for expanding Quantity Surveyor's Office, Kings Cross. Experienced man preferred, to take senior position.—Write stating age, experience and salary required to Box 1049, "The Builder."

WORKER-UP Required in Quantity Surveyor's department of major London Brewery Company. Please state age, experience, salary required and when free.—Box 1050, "The Builder."

JUNIOR WORKER-UP Required for London office of national firm of specialist sub-contractors, age 18/20. Excellent opportunities for advancement.—Write stating experience and initial salary required to Box 1051, "The Builder."

YOUNG ABSTRACTOR Required by West London firm of painting contractors. Preparation increased costs, dayworks. Good salary; luncheon vouchers; superannuation.—Reply to Box 1106, "The Builder."

WORKER-UP with five years' professional experience Required by F. S. SNOW & PARTNERS. Five-day week, luncheon vouchers, superanuation.—Apply in writing to 87 Charing Cross-road, London, W.C.2, stating age, experience, qualifications and salary required.

CHIEF WORKER-UP Required for Chartered Quantity Surveyor's office in Leicester. Permanent position for suitable man. Five-day week. Busy prosperous office.—Please write stating experience, age and salary required to Box 1094, "The Builder."

CAPABLE WORKER-UP, age approximately 20, Required by Quantity Surveying firm in Leicester Square.—Apply in own writing, stating age, experience and salary required, Box 1119, "The Builder."

WORKER-UP Wanted for busy Q.S. Office in West Country. Opportunities for taking-off will be given after period of 1 year. Permanent position. 5-day week. Overtime available. State age and experience, etc.—Box 1120, "The Builder."

SITE ENGINEER Required for the Southern region. Age around 26 years. Capable of proficent use of instruments.—Write Box 929, c/o GEO. MURRAY (ADVG.), Ltd., Columbia House, Aldwych, London, W.C.2.

TECHNICAL ASSISTANT Required in Estimating and Surveying Department of well-known London Contractors with offices in Westminster.—Write please to Box 892, "The Builder."

BUILDING ESTIMATOR

required for competitive pricing of jobs up to £500,000. Permanent position and good salary for suitable applicant. Pension scheme in operation. Write in confidence giving full details to:

H. FAIRWEATHER & CO., LTD.,
THE HYDE WORKS,
ST. JAMES'S LANE,
MUSWELL HILL, N.10.

ESTIMATOR/SURVEYOR Required by R. CORBEN & SON, Ltd., I.O.B. qualifications or similar.—Apply giving details of experience and salary required to Westborough, Maidstone, Kent.

HOME COUNTIES PUBLIC COMPANY Requires ESTIMATOR with experience in pricing Joinery. Age not more than 35. Progressive position with good prospects for right applicant.—Box 893, "The Builder."

ESTIMATOR

For Small Works Department of London West-End Builder. Contracts up to £8,000. Age 25/35. Able to take off own quantities. Excellent prospects for the right man. Non-contributory Pension Scheme. State experience and salary range contemplated.

Box No. 1052, "The Builder"

BUILDER'S ESTIMATOR for high-class jobbing work with old-established Building Company. Sound knowledge of the Trade and ability to estimate on a time and material basis essential.—Apply for appointment in writing stating age, experience and salary expected.—Apply TOM PORTER & SON (BUILDERS) Ltd., 101 Ewell-road, Surbiton.

SENIOR ESTIMATOR Required for all classes of Building works, top salary to right man able to work with minimum of supervision. Must be used to pricing all trades.—Write in confidence stating salary suggested, age, experience, previous employers and when free, to Box 894, "The Builder."

ASSISTANT ESTIMATOR/SURVEYOR Required by old-established Islington Building Contractors.—Write stating age, experience, salary expected, etc., to Box 981, "The Builder."

EXPERIENCED ESTIMATOR Required by long established building firm in the South-West Country. Contracts of all sizes and types handled.—Write in first instance to box number giving full particulars and salary required. Accommodation available.—Box 1055, "The Builder."

ASSISTANT ESTIMATOR AND SURVEYOR Required by London Builders. Permanent job. Please reply, giving age, full details of experience and salary required.—Box 1107, "The Builder."

DUE TO RETIREMENT, a vacancy occurs immediately for the services of an ESTIMATOR/SURVEYOR in a small but progressive Building and Contracting firm, Grange-over-Sands, Lancs.—Box 1108, "The Builder."

Old established Building and Civil Engineering Contractors require two

SENIOR BUILDING ESTIMATORS

experienced in pricing all types of construction up to £1m. Salary range £1,500, good conditions, superannuation.

Applications should contain full details past experience and connections in chronological order and be addressed to

Box 1054 "The Builder."

(All replies will be treated in confidence, present staff advised.)

PLUMBER, HOT WATER AND HEATING ESTIMATOR/SUPERVISOR Required, able to drive.—Write stating age, experience and salary required, to T. HOLDAWAY & SONS, Ltd., Westbury, Wilts.

ESTIMATOR-SURVEYOR wanted by medium-sized old-established firm of Building Contractors engaged on all types of work. Applicants must be experienced in preparing estimates from bills of quantities and from drawings and specifications; able to handle contracts from enquiry to final account. House available.—Apply giving age, experience and salary required to E. C. HUGHES, Ltd., Albion Works, Wokingham, Berks.

LEADING BUILDING CONTRACTORS

have a vacancy for a well experienced

ESTIMATOR

for building works in the London area. The position, after a satisfactory trial period, can be considered as permanent and pensionable and offers real opportunity for a well trained conscientious man.

Applications which will be treated in the strictest confidence, should state age, experience in detail, and indication of salary required to :—

Box 1053 "The Builder"

MSL have been retained to advise on the appointment of a

SENIOR BUILDING ESTIMATOR

for one of the larger nationally known firms of civil engineering and building contractors in London.

Candidates, age 30-40 and at least H.N.C. standard, should have had an early training in the building industry followed by at least 5 years' recent contracting experience estimating for building work up to at least £1 million contract value. They must be chartered quantity surveyors or members of the Institute of Building Estimators or Institute of Builders.

Salary range £1,500—£2,000 according to qualifications and experience. Pension scheme.

Please send brief details in confidence, quoting reference Y.1643, to A. Shaw Maclaren. In no circumstances will a candidate's identity be disclosed to the company concerned unless he gives permission after a confidential interview at which he will be given full details of the appointment.

MANAGEMENT SELECTION LIMITED
17, Stratton Street, London, W.1.

HOLLAND AND HANNEN AND CUBITTS (GREAT BRITAIN) LTD.

Require a competent

ESTIMATOR

for their JOINERY WORKS. The position is permanent, with staff bonus and pension schemes. Holiday arrangements for this year will be discussed.—Applications stating age, past experience, and salary required, should be sent in strict confidence to the Joinery Manager, 258 Grays Inn-road, London, W.C.1.

SENIOR ESTIMATOR

First class man required by London Building Contractor for tenders up to £1,000,000 in value. Age 35–45 years. Remuneration around £1,500 p.a. according to ability. Details to

Box 1056 "THE BUILDER"

ESTIMATOR/SURVEYOR Required, experienced in small works and medium-sized contracts.—Full details of experience, age, etc., to C. JENNER & SON, Ltd., 11 North-street, Ashford, Kent.

ESTIMATOR Required for Building Department of THE DEMOLITION & CONSTRUCTION CO., Ltd.—Please apply in writing to the Building Department, Mitcham-road, Croydon, Surrey, stating experience, age, and salary required.

SENIOR BUILDING ESTIMATOR

An opportunity exists for an experienced Building Estimator to join a National Contracting Company in the capacity of Senior Estimator with the prospect of becoming Deputy Chief Estimator. Candidates must have had experience of tendering for contracts up to £1,000,000 including multi-storey and industrial buildings.

Commencing salary will be in the range £1,600—£1,750 per annum.

Applications should be addressed to

Box 1127 The Builder

COURTNEY, POPE LTD.

require

EXPERIENCED SHOPFITTING ESTIMATOR

Applications, with full details of experience, will be treated in strictest confidence. Write in first instance to

Ref: AJ/E

TRAINEE ESTIMATOR Required for Builders' Merchants. Must have some knowledge of light side of trade and be quick at figures.—Write stating age, experience and salary required to ALFRED GOSLETT AND COMPANY LIMITED, 127-131 Charing Cross-road, W.C.2.

ESTIMATOR

To fill permanent post with old established firm of Builders in Western Home Counties—able to take off own quantities and deal with interim certificates and final accounts for all types of builders work up to £50,000.

Replies treated in strict confidence.

Box No. 1122, "The Builder"

CLERK OF WORKS Required for Laboratory project near Manchester. Commencing July, 1959, duration approximately 15 months. Previous experience of laboratory work essential. Salary by arrangement. Interviews London or Manchester.—Write Box 909, "The Builder."

A CONTRACTS MANAGER is Required for Small Works Department of a firm of Building Contractors in West London. He must be capable of inspiring confidence in customers and securing new business and making on-the-spot estimates where necessary. He must be able to organise and supervise work in progress on a number of small contracts the maximum value of any one contract being £20,000. He must be capable of inspiring loyalty in Office and Site Staff. Candidates should be between 30 and 40 and have practical knowledge and sound qualifications in building construction, quantities and estimating. The salary will be in the range of £1,000 p.a. depending on qualifications and experience, and with excellent prospects.—Box 1096, "The Builder."

CONTRACTOR handling various classes of building and c.e. work wishes to appoint a man to specialise in the setting of bonus targets and to introduce other methods of increasing productivity. Practical building experience more important than bonussing experience.—Box 897, "The Builder."

CONTRACTS MANAGER Required for flat and housing estates, borders of Berkshire, Middlesex and Surrey. Permanent position. Write stating age, salary and experience.—Box 977, "The Builder."

CONTRACTS MANAGER Required to organise and run several medium-sized contracts. Must be keen and willing to undertake all duties in connection with the works in hand. Car provided. Give full particulars of qualifications, experience and salary required to Box 1057, "The Builder."

CONTRACTS MANAGER OR AGENT to undertake the running and planning of a number of contracts, aggregate £750,000 per annum. Fullest details in writing of qualifications, experience and salary required. Car provided. Only keen, energetic man should apply to Box 1058, "The Builder."

HUMPHREYS LIMITED

199, Knightsbridge, London, S.W.7

require the following staff

ASSISTANT CONTRACT MANAGER: To assist Contract Manager on all types of contracts. Must have had previous experience on work of magnitude and complexity.

ESTIMATOR: To assist Chief Estimator on a wide range of building and civil engineering work, must have had experience on substantial projects with reputable firms and be capable of producing detailed make-ups based on modern plant usage and techniques.

Substantial salaries, good conditions, superannuation, etc., for the right men.

TRAINEES: Young men 16–20, with not less than five G.C.E. subjects at "O" level who wish to enter the building and civil engineering industry, are offered the opportunity of training in contract organisation, estimating, surveying, production or purchasing.

Please give details of education, experience, when available, and salary required, in strictest confidence. Envelopes should be addressed to Personnel Department, Humphreys Ltd., and marked 'Private and Confidential'.

PLANT AND TRANSPORT MANAGER

required for Head Office duties by substantial firm of North London building contractors. Applicants should have held senior responsibilities for contractors' plant and must possess the requisite technical and practical knowledge needed for the control and maintenance of a wide variety of plant which includes tower cranes, excavators, concrete pumps. Experience in organising plant records and clerical procedure is also essential. Age range 35–45. A recognised engineering qualification would be an advantage. Salary commensurate with age and qualifications. Pension Scheme. Written applications in confidence giving full details of age, experience and present salary to

H. Fairweather & Co., Ltd., Hyde Works, St. James's Lane, Muswell Hill, London, N.10

ASSISTANT CONTRACTS MANAGER Required, aged 25 to 35, previous site experience desirable. Good prospects for man with drive and initiative.—Write giving full details of age, experience, salary required, etc., to KIND & COMPANY (BUILDERS), Ltd., 564 High-road, Leytonstone, London, E.11.

OFFICE MANAGER Required for London office of national firm of specialist sub-contractors. Must have good general office experience, knowledge of wages, buying, etc., and be able to control and organise office staff up to 40 personnel. Only conscientious men seeking a permanent position need apply.—Write stating age, experience and salary required to Box 1059, "The Builder."

CONTRACTS MANAGER

required to work from Head Office.

Applicants must be fully experienced in modern building techniques, should be cost conscious, prepared to work as a member of a planning team, and able to carry out Contracts to a tight programme.

This is a permanent, pensionable appointment and presents an excellent opportunity to join an Organization where there are opportunities for those willing and able to accept responsibility.

Write in confidence stating age, experience and where gained, and present salary to the Secretary,

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BUILDING & CIVIL ENGINEERING CONTRACTORS,
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PAINTING CONTRACTORS with widespread National interests Require men of outstanding business acumen as future MANAGING DIRECTORS to take complete charge of new businesses to be opened in many localities.

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ASSISTANT CONTRACTS MANAGER Required for progressive East London Contractors. Applicants should have L.I.O.B. or H.N.C., and have had some experience in supervision of building contracts. Younger man with surveying background would however be considered.—Box 1061, "The Builder."

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Required by Precast Concrete Company to take full charge of expanding business.

The position offers an interesting and stimulating career for the right man and a progressive salary and contributory pension scheme.

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A well-known Public Company engaged in building and Estate Development requires a senior executive experienced in the organisation and methods to be followed in administration and also on building sites.

The executive would be required to advise the directors on the most economical and efficient methods to be adopted in the whole field of administration and also in the methods to be employed on contract locations.

Applicants, who should have had considerable experience in Organisation and Methods work, should be in the age group 30/45 and should preferably possess some professional qualification.

The appointment will carry a salary fully commensurate with qualification and experience.

Applications should be addressed in the first instance to **Box E.10, Layton-Bennett, Billingham & Co., 23, Blomfield Street, London, E.C.2.**

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have vacancy in their
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BUYER

The duties will consist in issuing enquiries for Materials and Sub-Contractors quotations for tendering purposes.

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Well known Building Contractors. West of London. Salary not less than £750 per annum. Good prospects for man of ability and enthusiasm. Details experience, age, previous employers.

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Experience in preparation of wages sheets, P.A.Y.E. & W.R.A. essential. Bonus calculations and labour costing an advantage.

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General Secretary,
J. W. TILLER, L.I.O.B.,
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BUILDING AND MAINTENANCE SURVEYOR (49) experienced in both professional and contractors' practice, seeks position as BUILDING MANAGER or SURVEYOR TO PROFESSION. London or Home Counties.—Box 1148, "The Builder."

CONTRACTS MANAGER with proved record of service with large London contractors, desires appointment with progressive firm who require results. Salary not less than £1,000. Interviews invited.—Box 1136, "The Builder."

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Messrs. CAMERON, KEMM & CO., Solicitors, Gresham House, Old Broad-street, London, E.C.2, of
Messrs. W. H. PALMER & SONS, 14 Castle-street, Bridgwater, Somerset, and of
Messrs. HENRY BUTCHER & CO., 73 Chancery-lane, London, W.C.2.

CITY OF DURHAM.

DISPOSAL OF BUILDING LAND.

The Council invites offers for the purchase or lease for private housing development of either the whole or part of approximately 182 acres of undeveloped land at Low Carr House Farm, Newton Hall, Durham.

Further information regarding the land may be obtained from the City Engineer, Town Hall, Market Place, Durham (Tel.: Durham 2521).

Offers enclosed in plain sealed envelopes bearing the words "Offer for Land at Low Carr House Farm," but not bearing any name or mark indicating the sender, must be delivered at my office on or before 17th July, 1959. The Council's Standing Orders provide that no offer will be received except those sent in complying with the above direction.

The Council does not bind itself to accept the highest or any offer.

D. B. MARTIN-JONES,
Town Clerk.

32 Claypath,
Durham.
15th May, 1959.

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County of Surrey
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R. C. HODGINS,
Town Clerk of Godalming.

11th May, 1959.

By Order of the Receiver, H. A. Esden, Esq., F.C.A.
Re: John Board & Co., Ltd.

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Messrs. DAVIE, PARSONS & CO., Chartered Accountants, 6 Bishopsgate, London, E.C.2, of
Messrs. CAMERON, KEMM & CO., Solicitors, Gresham House, Old Broad-street, London, E.C.2, of
Messrs. W. H. PALMER & SONS, 14 Castle-street, Bridgwater, Somerset, and of
Messrs. HENRY BUTCHER & CO., 73 Chancery-lane, London, W.C.2.
Telephone: HOLborn 8411 (8 lines).

By Order of the Receiver, H. A. Esden, Esq., F.C.A.
Re: John Board & Co., Ltd.

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DUMPERS
Light Gauge Track, Barrows,
Engineers' and Blacksmiths' Tools, Lifting Tackle.

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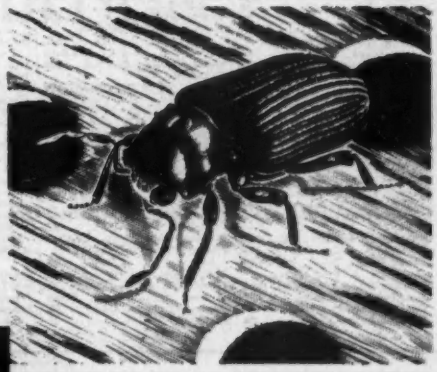

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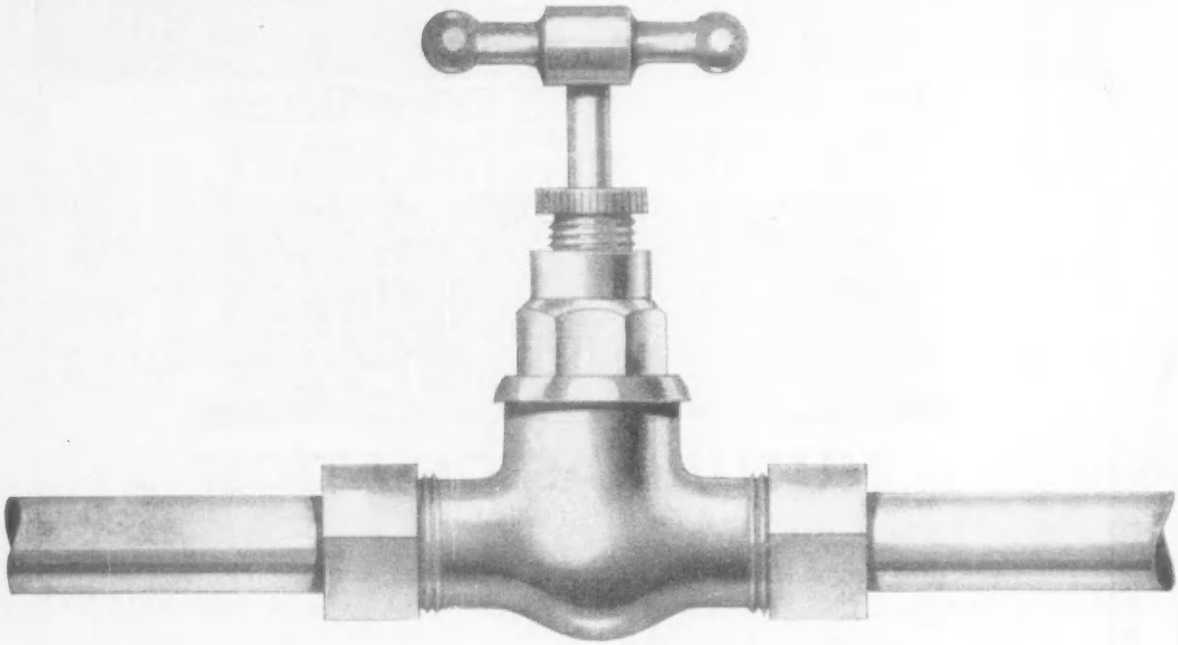

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